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SHOOTING

a magazine for shooters by shooters



DR. ALONZO H. GARCELON

AUGUSTA, MAINE

1913 - 1985

President, National Rifle Association, 1985

President, National Benchrest Shooters Association, 1968

President, International Benchrest Shooters, 1970

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Advertisers Index

Armor Metal Products	26
Berger Bullets	5
Black Magic	7
Broughton, Harold R.	27
Bruno Shooters Supply	6
B-Square	8
B.W. Gunworks	10
Custom Products	20, 32
Douglas Barrels	9
Dyna-Sports Div.	13
Fowlers	21
Greenawalt, Jim	12
Hammonds Gun Shop	20
Hart Rifle Barrels	31
Hart, Robert W. & Son	19
Hidalgo, Tony	26
Hodgdon Powder Co.	8
Jarrett, Kenny	8
JGS Die & Machine	7
Kelbly, Inc.	28
Lilja, Daniel	6
Marquart Precision Co.	19
Masker, Seely	18
McMillan Rifle Barrels	22
MTM Molded Products	31
Pease, Bob	9, 16, 25
Pennebaker, A.E.	21
Permian Shooters Supply	15
Premier Reticles	10
Redding Reloading Equipment	25
Rorschach Precision Products	10
Schneider, Gary	4
Seely, Vernon	16
SG Bullets	28
Shilen Rifles, Inc.	10
Shrum, Don H.	17
Trading Post	32
United States Products Co.	5
Whitetail Design & Eng. Ltd.	26
Wichita	4
Wilke Machinery Co.	11

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EDITORIAL

When Parnell died a year after the scandal, his sanity had already gone, he had made enemies of his friends, and he had been rejected by the Irish electorate. But nevertheless when the news of his death came through, shops and offices closed throughout Ireland. He had been a man who, in the Ulster phrase, did not have to stand up twice to cast a shadow. The death had been sudden and the funeral too soon for elaborate arrangements, and the priest had told the parishioners not to attend. But in Dublin 16,000 of them did, among them a young poet called Yeats.

The Improbable Irish
by Walter Bryan

Lou Palmisano developments. Lou has just returned from Finland, and successfully concluded his series of negotiations with Sako. There is a target date of April 1, 1986 for the following: 1.) Sako will produce rifles in 6 PPC and 22 PPC chamberings, with PPC Corporation the exclusive distributor. 2.) PPC Corporation will become the sole distributor in the US for Sako ammo and Sako brass (and Louis is well aware of the wish of many of our shooters to get their hands on Sako brass . . . which has an excellent reputation for uniformity). 3.) There will be two new PPC cases, in addition to the present 1.500 length case. One will be 1.750 inches (the Magnum PPC), and one will be 2.000 inches (the Silhouette PPC). Shooters that I am talking to are looking at those two larger cases, and at the 100-110-125 grain range bullets in 7MM and .308 calibers turned out by Speedy Gonzalez and GTB . . . and doing a lot of brainstorming.

I do know that Walt Berger recently turned out an order of 81 grain 6MM bullets for Lou Palmisano to experiment with at 300 meters at Fort Benning. I asked Walt his opinion of the bullets, and Walt told me that his preliminary tests showed the jackets were quite good, but he personally doubted that the standard PPC could drive them fast enough. Makes those two new PPCs even more interesting, huh? And, down in Austin, Texas (at 11803 Indian Head Drive, Austin, Texas 78753 to be exact) T.J. Jackson is reveling in ten cases of the short-lived 7MM BR configuration . . . the thinner walled version of the BR case . . . which should also be capable of driving those little 81 grain Berger rascals.

Gunsmiths. Benchrest gunsmiths, specifically. Two emerging craftsmen, whose work is drawing favorable recognition from their peers . . . Clay Spencer, Rt. 1, Box 546, Scottsville, Virginia 24590

(phone 804-293-4922), and John Ambler, 2025 Cheshire Street, Fort Collins, Colorado 80526 (phone 303-226-5217). Each is doing some work for me at present . . . and each came well recommended, by individuals whose opinions were not to be taken lightly. Top level craftsmen, who fuss and fret over their output, and who check and double check before they let their work out the door . . . are not found behind every rhododendron bush.

LEFT THE RANGE

DR. ALONZO H. GARCELON of Augusta, Maine passed away on November 4, 1985 at age 72. President of the National Rifle Association at the time of his death, Doc (as he was known to all) was president of Precision Shooting, Inc., a modest post indeed for a man that was a friend, confidant, and adviser to governors, senators, and many of power and wealth. He was the first president of the IBS, and twice stepped in personally to rescue *Precision Shooting* magazine from failure.

The editor frequently asked Doc why he did not give up his dentistry practice. Doc would just shrug, and say "It seems that the area is full of old timers that will only see me". Life itself was full of folks that would only believe something when Doc said it.

The obituary is written in haste, and in sorrow, in the evening of November 4th. The magazine you are reading owes an awful lot to Doc Garcelon. The shooters of the United States, and the citizens of Maine, in a larger, grander sense have lost one who always put his fellow man . . . before himself.

Doc Garcelon has walked to the firing line for the last time. If you look in the dirt, there behind his bench . . . the footprints he left . . . are extremely large. It would be almost impossible . . . to fill them.

Rest in peace . . . buddy.

— WE ARE . . . INDEED . . . DIMINISHED —

The Editor
(Speaking for the staff, and
all the benchrest shooters)

Wildcats. Two well regarded benchrest shooters are each muddling with Weatherby cases. One is messin' around with a shortened .224, and one with a shortened .240. Out in Montana, Lee Andrews is playing with a .220 Swift Improved; not a

benchrest cartridge, but apparently a heck of a live varmint creation. Lee has his set up with a 30 degree shoulder, and a .244 tight neck. He is using it in a 9 inch twist Hart barrel, and firing the Sierra 69 grain .224 caliber bullets. Using H380 powder, Lee is getting 3500 fps at the muzzle, and with a chronograph at 500 yards, the critter is still traveling at 2200 fps. Hunting with Bob Fritz, the furthest chuck kill to date has been 754 yards.

Speaking of Lee Andrews, he is a new advertiser this issue, with a well made, tubular steel leg portable benchrest. Give your wife one for Christmas.

Jim Greenawalt has been off on a bit of a tangent, testing bedding compounds and their resistance to the bore cleaning solvents we regularly use. Jim tells me that the only one that stands up well, in his testing, is the new Titanium Devcon, which says on the label "chemicals resistant."

So much for gossip of the trade to come to the editor's ear in recent days.

About the time that many of you receive this issue, we will be getting into full swing for the Holiday season. And shortly . . . another year will be behind us. I would like to thank the P.S. contributors who, over the past year, kept the magazine going. Agree with their opinions, or disagree with them . . . as you will. But . . . except for them, PS would be back to 20 pages. These writers have done their best for us, without remuneration, and with scant thanks at times. Over an evolving period, *Precision Shooting* has become something we can all be proud of, and something that we all can participate in. If you know a better way to build the mousetrap, tell us about it. You may not be a writer . . . but give me the basics . . . And I'll certainly make you look like a writer.

On a personal note, I guess I owe a very sincere thanks to a half dozen gunsmiths, and a couple score of shooters . . . who have recognized what a mechanical idiot I am . . . and who have always helped, whether the editor had his shirt sleeve caught in a neck turner, or had just set up a C-press upside down. One recently re-

Continued on next page

Happy Holidays

As a modest Christmas present, we're adding four pages to the holiday issue. The extra tab is on us.

Precision Shooting, Incorporated

EDITORIAL

Continued from page 3

marked to me, "gee, after you get through re-working my articles, you make me look real smart". Heck, the guy probably helped me out of a half dozen mechanical calamities . . . I owe him a lot more than he owes me.

Whether an IBS-NBRSA merger is in the (eventual) cards or not, it is my (admittedly personal) opinion that both organizations appear strong, well-led . . . and most important . . . happy. In all . . . without exception . . . my dealings with both Jim Borden and Walt Berger . . . I have found them to be gentlemen of character and grace. Both organizations are blessed with good leadership, and I hope that they appreciate the guy that they each have in the top position.

From the staff of *Precision Shooting*, to all our readers . . . may 1986 bring you health and happiness. I look forward to a good year for both benchrest, and for *Precision Shooting* magazine. Both . . . the sport . . . and the publication . . . will be exactly what WE make out of it. Since both are in our hands . . . let's make something good out of both of them. It is a lot easier to tear down a city . . . than it is to build a city. In 1986, let's continue to build . . . not tear down.

Happy holidays, gang.

The editor.

LOADING EQUIPMENT DISCUSSION

(Continued From October)

DAVE BRENNAN

To tell you the truth, I'll be darned if I know what I'm doing answering my own inquiry, but one of the letters of inquiry that I sent out came back with a post office notation to the effect that the person addressed had moved, and in the absence of the nameless one whose wisdom was sought, I'll reply myself.

I will explain to the uninitiated a fact well known through benchrest circles . . . the editor is a mechanical dumbkoff. The only bases that I have for writing this reply is the fact that so many of the benchrest shooters, who know so much more than yours truly, have spent hours in the frustrating task of trying to teach the editor some basic facts, and have thus created a supply of wisdom . . . that I can pass along to those who do not have dozens of advisers. (And thank heaven for all of them . . . may their tribe increase . . . and I'm sure that I will need all of you again in 1986.)

We'll start off with powder measures. New shooters to the game are frequently thrown off stride by the fact that many top-level shooters have only a vague idea of what the actual grains weight of their powder charge might be. Instead the comment "fifty and a half clicks on the Culver of H 322" is freely exchanged. Likewise the comment . . . "I've gone up

a click" draws no uncomprehending stares . . . everyone knows what the reference point is. The original Culver conversion of the Lyman 55 powder measure is available through both R.W. Hart and Son, and Permian Shooters Supply. There are however, periods when they are out of stock . . . because Homer went off deer hunting, or whatever. The Neil Jones model, which has virtually interchangeable click settings with the Culver, has a lot of fans . . . some of them think that the latest version, the Micro-Measure, is the ultimate measure. The older Jones adoption of the Lyman 55 measure is still a right handy device, and has served many shooters well over the years. As this is written, Fred Sinclair is marketing a new measure, and while the editor has not had a chance to examine one in detail, still the Sinclair shop has a fine reputation for the value in the accuracy accessories turned out there, and it's probably a good bet to be widely accepted. The Seely Masker conversions of Saeco and RCBS measures also have those swear by them. And the Redding powder measure, with micrometer settings, is certainly a low cost way to throw accurate charges, particularly when modified by the Rick Hornbeck conversions as described in the September issue.

On to neck sizers. The Custom Products neck-sizer, with interchangeable buttons for various sizes, got us started on the right track, and many shooters today see no need to look further. Get yourself a good selection of various size buttons, and you're ready for whatever might come up. The L.E. Wilson die, built along similar ideas, likewise has its followers, and nothing shoddy has ever gotten out the doors of that shop. Seely Masker used the Lyman tong-tool to handle the Jones buttons, and many like that principle. Many custom benchrest gunsmiths will make a to-the-gun fitted die, available with their chambering job. Many

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shooters however, probably the majority, prefer to be able to change neck tension, as their theories of the moment dictate, by the use of interchangeable button inserts. And it makes a lot of sense.

Next comes bullet seating dies. Everyone . . . or just about everyone . . . in the game uses straight-line bullet seaters. And the standard for a couple of decades has been the Wilson seater. Ideas come and go, but the Wilson seater survives change, and survives the years. Bart Wieder, at B&W Gunworks, makes a heck of a fine bullet seater. And many custom benchrest gunsmiths will provide, with a barrel chamber order, a straight-line seater cut with the same chambering tool as used in the re-barreling. They're all good.

For primer seating, most use the small tools that are hand-held, and which enable the user to "feel" the primer to the proper seating depth. Custom Products offers a fine one, and Bob Pease sells a bunch of them each year. Wally Hart has a really great one, sort of expensive, but you pay more for a Cadillac. Fred Sinclair has a hand-held primer tool. One will see RCBS, Lachmiller, and others on shooters re-loading benches. The one thing that everyone agrees on . . . you've got to have some "feel" for when the primer hits bottom . . . at which point you've got to stop pressing.

Many sources turn out primer pocket cleaners. Whitetail Design turns out a version, using carbide cutters, that squares the primer pocket, as well as cleans. The Sinclair outfit also feels this is important, and markets tools to accomplish the same objective.

If you're shooting the PPC, you will need a small-size flash-hole de-burrer. Seely

Masker and Wally Hart each offer tools that even the Editor can use. They are sufficiently inexpensive that there is no excuse for not having one.

Everyone agrees that you've got to have a cleaning rod guide . . . to keep from scrubbing the lands and grooves right out of the barrel. Most custom gunsmiths offer them, including Seely Masker, Fred Sinclair, and Wally Hart. Clarence Hammonds offers one, made out of fiberglass, with a neophrene "O" ring to keep the solvent out of the chamber. Actually, as Al Davidson remarked in an earlier issue, any bore guide, if it's big enough to let a bore brush through, is TOO DARNED BIG . . . and bore guides still have a long way to go. There's a lot of room for improvement in this area. And sooner or later, hopefully sooner, someone is going to come out with a rod guide that does what it is really supposed to do . . . protect the throat and first few inches of bore from cleaning rod wear. All our present rod-guides do help somewhat . . . but not enough.

If, like most shooters, you shoot a "tight neck" cartridge case, you will have to turn the cartridge neck. Even if you don't have a tight neck chamber, it's probably still a good idea to turn the neck, to clear up brass irregularities. One of the pioneer tools in this area is the Marquart, still available today. More deluxe, and correspondingly more expensive tools, using micrometer settings, are available from CPS, Wally Hart, and Seely Masker, as well as Fred Sinclair. Many advance shooters with access to a lathe, use their lathe exclusively, with home-made cutting tools. All agree that it

is a real stinker of a chore to bring a lathe to a rifle match however.

We will not venture here into the selection of components for the loaded round. New shooters will find, in our pages, a number of advertisers that can supply just about anything they might need for the accuracy game. These shops are invariably run by individuals with long experience in the accuracy field, and a phone call to most of them, starting off with . . . "I'm new to this, and I need some advice . . ." will invariably bring you capable guidance.

The ease with which an experienced benchrest shooter re-loads . . . to exacting requirements . . . is a wonder to the new shooter. A mistake frequently made by a new shooter is to go to an actual rifle match, and ask a multitude of questions during the match itself. It's not the greatest of ideas. If the fellow you are bugging is right up there with the leaders, he's probably as jumpy as a cat on a hot tin roof. If he's down near the bottom of the list, he's probably ready to strangle someone (you??). And if he's in the middle of the pack, he's probably running ten theories a minute through the old gray matter. The new shooter can do no better than to see if he can't meet an experienced benchrest shooter on his practice range sometime. There the fellow is not up in the air from competitive strain, and has a bit of time to allow someone to look over his shoulder, and to offer a bit of guidance when the new shooter drags out his spanking brand new equipment. And if the new shooter has the foresight to bring a cooler with him, and after the shooting is

Continued on next page

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LOADING EQUIPMENT DISCUSSION

Continued from page 5

over, can casually say to the older shooter " . . . you, uh . . . wouldn't like a cold beer . . . would you?" . . . sometimes the wisdom will just flow . . . and flow . . . under such a peaceful setting. Invariably, when things are not going well for the editor, he will try to hook up with a better, more experienced shooter at a practice session. And invariably . . . they get me back on the right path. Rick Hornbeck, Seely Masker, Harold Broughton, and Nate Boop regularly help out the Editor, all with an air of resignation about his utter and complete mechanical stupidity.

Precision Shooting has a good a collection of staff writers as you can find, anywhere. If you're having a real problem, drop the editor a line. If it's an easy one, I'll answer it myself. If not all that easy, I'll pass it along to the staff member that I feel best equipped to respond to your particular inquiry. There is no charge.

But, of course, if you go on to become a real champion shooter, and you shoot our ears off in a year or so . . . you just COULD buy us a cold beer after the match is over. No staff member has EVER refused a cold beer on Saturday evening. If it ever happened . . . it could get the fellow thrown off the staff.

We do have our standards to maintain.

LEE EUBER

Dear Dave,

I guess that the first item to start with is the bullets. That one at least is easy; I'd get a supply of bullets from my brother, Allie Euber, in Orwell, Vermont. I've always used them, not so much because Allie is my brother, but rather because I have seen them set records ranging from single group to aggregates, when fired by a wide range of different barrels, and by different shooters. I myself am using flat-base bullets these days, but Allie also makes boat-tail bullets; you take your pick. While Euber bullets are my choice, I am very much aware

that there may be a dozen bullet makers turning out bullets today that are making a superior grade bullet that is capable of winning the Nationals at any chosen time.

Primers is an area where I would do some testing, I do believe. Federal 205 match primers are used by most of the shooters, myself included. I think that if I were buying a good sized supply of primers, I would buy a few others as well, and then settle down to do some testing.

Powder is an area that is pretty well defined these days . . . for the PPC, anyway. Just about everyone is using either H 322, T 322, or Norma 201 . . . with a few individuals holding out for 4895 powder. While 4895 is a very consistent powder, most shooters who are using it are filling the case . . . and I prefer not to use a compressed load.

When we start putting the loaded round together, one starts thinking in terms of neck sizers and bullet-seaters. There is a goodly range to choose from, and most are quite good. I have a personal idiosyncrasy in this area . . . I tend to select tools made of steel, and not aluminum. Over the years I have not purchased anything that was marked "L.E. Wilson" that was not top rate.

For priming tools, I started with a Lee Loader, then went to the Lee Auto Primer. Today I am using an RCBS priming tool, which I find quite satisfactory.

In powder measures, there are a few good ones to choose from. When I got started in benchrest, a Culver adoption of the Lyman 55 was very much the one to buy. When I had enough money saved, there just were not any available. I found that Neil Jones (Custom Products) made one similar; I bought one, and have been quite happy with it. I would buy another one today. The "number of clicks" on the Culver measure is heard much more commonly from benchrest shooters than is the actual weight of the powder. The Jones measure and the Culver measure have interchangeable settings . . . 50 clicks on a Culver, or 50 clicks on a Jones I have found to be identical.

Finally you need a good bore guide, to keep the cleaning rod from rubbing away the land and grooves of your barrel. John Brown from Virginia made the one that I am using today.

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TOM VAN LANDINGHAM

Dear Dave,

In regards to your letter on loading equipment, I have one question before I start. "Somehow, you came up with 50 new PPC cases". Where did I get them?? I need more badly!! (Editor: realize that this was

written in May; PPC cases are now available.)

Now for the loading equipment I will buy: As I shoot 6mm my first item will be a "Jarrett" neck expander, it works great. Next, a "Jarrett" neck turning tool, this is made very similar to other tools on the market, but has a large radius ground on bottom of the cutter. This reduces the chance of accidentally cutting into the neck-shoulder junction of the case. A primer hole deburring tool, the only one I ever owned was a "Hart" and it worked fine, so I will get another one. For my sizing die, I want a custom one by Kenny Jarrett. He does all my gun work and will make this die with same reamer that he uses on my chambers and machine it so that while sizing I get a one to two thousand set back on the shoulder. This custom die uses standard Jones buttons for the neck. I prime the cases with "Federal" 205 m's using a "Lee" priming tool, charge them with Du Pont 4198, using a "Lyman Culver" powder measure with a 6" "Jarrett" drop tube. I'll buy a thousand "Watson" 68 grain bullets and a Wilson seater to seat them. A few other items that I'll need are a "RCBS" primer pocket cleaner, RCBS handle and 6mm brushes for inside neck cleaning.

A little further comment on two of the above items, powder, and bullets: I use Du Pont 4198 because for me it seems to be the most constant in all temperature and humidity variations. I'm a new shooter, less than two years, and started using it because it was what the winners were using and have never regreted it. In competition I've never used any other bullets but "Watson". I've never had any problems at all with them and shooting in the Southeast Region like I do, they sure are easy to obtain. All of the above are in my opinion, the best available for me. Like Hunter on TV says, "it works for me"!

JOHN AMBLER

Dear Dave:

Your letter regarding the loss and replacement of reloading equipment turned out to be more than just a little bit thought



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provoking. My first reaction was: Where else could I get this much money for so much junk? Another thought that crossed my mind was what new gadgets can I get after the necessities are replaced.

One more consideration to your question was: Did the fire destroy both loading bench and shooting box equipment? Since both types of equipment are necessary I'll assume all was lost.

First will be the loading bench equipment:

Loading press: RCBS Rock Chucker or Bonanza CO-AX. Both are good presses, the Rock Chucker is a bit less cumbersome.

Full length die: Redding. I've tried some other brands and feel the Redding just does a better job of sizing.

Powder scale: Any scale without a dampening feature. The Redding #1 fits this description but I don't know if it's still available.

Neck expander: I can't speak from ex-

perience here as I've always made my own to fit my full length die. I'd like to find out if Sako would just make the brass in a 6mm configuration. It's easy to neck down.

Neck turner: Hart Deluxe or Sinclair Deluxe. I've had a Pindell for years and wouldn't consider a replacement without some means to measure cutter infeed.

Case trimmer: Wilson. The case holder arrangement is by far the most inherently accurate. No need to worry about brass chips getting into a collet affecting length or squareness.

Deburring tool: I would suppose any of them are OK. I use a Wilson and it's very satisfactory.

Micrometer: Mitutoyo 1" in 10ths. Used for setting neck turner. Measure over loaded diameter. It's easier and cuts measuring error in half over a ball mike.

Dial caliper: Mitutoyo 6", .100" per rev-

Continued on next page

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LOADING EQUIPMENT DISCUSSION

Continued from page 7

olution. A high quality versatile tool at a very reasonable price.

The following list of tools is what I would consider essential for the loading box:

Bullet seater: Wilson or Hart. I don't know of any unacceptable straight line type.

Neck sizer: Wilson with correct size bushing for minimum sizing and one extra bushing .001" smaller.

Priming tool: I'm currently using a Simmons but have had good success with the old Lee. Any of the tools from the custom makers should be fine.

Powder measure: Since money shouldn't be a problem, (remember all the junk you were reimbursed for but won't replace), the new Jones. It will measure any powder well.

Arbor press: Any of those on the custom market should work fine.

Miscellaneous: Brownell 25 pc. Magna Tip Screwdriver Set (includes allen type wrenches), plastic tip hammer (preferably with replaceable nylon tips), loading block, nylon case neck brush, and primer pocket cleaner.

That should pretty much take care of the tools. My choice of components certainly won't reveal any secrets. Berger bullets, T322 powder, and Federal 205M primers.

That fact that I am specific as to the manufacturer of some of these items doesn't necessarily mean that I feel they are in any way superior to any other brand, it's just that I've had personal experience with them and find them to be of excellent quality.

I believe I've covered everything. Won't be the least bit surprised if some important items were left out since I seem to be able to do that when going to a match.

Thanks for the opportunity to express my views.

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TONY MARGELEWICZ

Dear Dave,

I dug your inquiry letter out, and re-read it after I returned from the Super Shoot. Odd your talking about a hypothetical example where my loading room has a fire, and I lose all my equipment odd because after the Super Shoot I was thinking of torching off all my equipment. The only thing that kept me from doing just that was a feeling that when I ignited the pile I owed it to the shooting world to be sitting on top of said pile, arms crossed, legs crossed, and a look of passive indifference on my face as the flames' rose around me, inscrutable to the end. (Editor: Tony, have you been watching those old "Joan of Arc" re-runs again?). Well, here goes, in any event.

After I inspected the cases, I would expand them to 6 MM. To do this, I would have my favorite gunsmith make me a long, tapered button that fits a standard full length die. I would buy a Hart deluxe neck turner from that gunsmith, the main reason being that I like the micrometer adjustment. While I was in the shop, I would add a primer pocket depth reamer, and an internal flash hole de-burring tool as well. I trim all of my cases with a Forster tool, so I would have to pick up one of these. Next an R.C.B.S. Rockchucker press, and a set of conventional 6 PPC dies. A good set of Allen wrenches is also needed.

My choice of powder measures is unusual, and I have to say it's personal preference only. I like a Neil Jones body, and a Culver insert. I could also live with a Redding BR 3, or a Masker-Saeco. Given my complete choice, I'd opt for the Culver insert in a Jones body. The Culver insert is what I started with, and the Jones body is marked improvement over the old Lyman 55.

You say my powder supply is gone also? Well, I guess I have to beat the bushes for some more Norma 201. And when I think about it, I'll have to get some H 322 for a finicky heavy varmint rifle that will shoot nothing else but. On the subject of bullets, I'm going to take a diplomatic "pass". There are several bullet makers, turning out bullets in the 65 to 70 grain range, whose products I would cheerfully shoot, without feeling handicapped in the least. Indeed, if there is one area that the benchrest world has for a strength, it's the bullet making

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area. We may have at least a dozen makers able to turn out a product capable of winning a Nationals on any give day.

To prime the cases, I'd buy a Lee auto prime. I like the speed, and the tray that lets you do the deed without touching the primers. In my case, the primers would be Winchester, if for no better reason than I like to be at least a little different. I use a Lyman 310 tool converted by Paul Kempfer to do my sizing, because it's so darn convenient. When I get my replacement tool, I'd get a supply of different sized buttons as well. The various different sizes can come in handy.

Wally Hart does a great deal of my work, and I would order one of his bullet seaters. They can have a tractor-trailer, followed shortly by a tank, run over them, and they will still look as good as the day that they left the Hart shop. Furthermore, being stainless steel, they will not rust.

I wouldn't know where to look to find another Ferguson cartridge spinner, but I'd sure give it a try. I use it to check to see if my dies are seating straight, and to make certain that the sizing die is not bending the neck at all. I think it's important to check all my dies from time to time.

I'll need an arbor press to seat the bullets, so while I was running around downtown Nescopeck, I'd buy another Hart arbor press, with the spring return. The way a Hart arbor press is built, though, I doubt a fire would harm it. Probably ten minutes with steel wool and a light oil would have it good as new.

The little stuff like the case neck brush and the primer pocket cleaner would come from Hart as well. (What can I say? I'm a closet Hart freak).

In closing, let me say that the benchrest world is fortunate, in the field of loading accessories, to have the selection that it does. In just about every sub-section of loading equipment, the talent is two-three-four deep. For the new shooter read the various opinions. If you see the same name three-four-five times it's pretty good bet that if you buy it and use it properly you can't go wrong.

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FRANK BRABEC

Dave,

Hope this doesn't arrive too late for you to use. This has been an extremely hectic summer and then you tell me my loading room went up in smoke.

OK, my replacement cost insurance check is in my hot little hands. I have rounded up catalogs from Hart, Masker, Sinclair and Jones. A telephone call to Seely and the following are ordered:

A.) Masker full length sizing die; as Seely builds all my rifles, he knows what I need.

B.) Masker seating die. Maximum run-out of my loading rounds from his dies is always under .001 usually less than .0006.

C.) Hart Deluxe neck turning tool with Seelys mandrel that goes with his expander die. I have found I can remove the mandrel from the neck turner, expand my cases, put the mandrel back and my necks will turn at .0092 with no adjusting. I do fire form my cases using Bullseye and wax using Seely's method that was written up in P.S.

D.) Seely's modified Lyman tong tool with Jones sizing buttons.

From Hart: The Deluxe Arbor press. I wanted one for quite a while but my old

press was serviceable just couldn't quite justify it.

From Sinclair: Now the list starts getting longer, as Fred has so many of the little items one just can't do without.

A.) Long Dewey Cleaning rods and carrying case.

B.) White-Tail prep tool for primer pockets.

C.) Fred's Priming tool

D.) Chamber cleaning tools

E.) Powder measure

F.) Cleaning patches

G.) Flash hole deburrer

H.) Wilson case-trimmer with all of Fred's modifications

I.) Wilson case mouth deburring tool

Now would come a Bonanza B-2 Bench Press and a Huntington Compact Press.

A 6" Stainless dial micrometer, reading .001, a outside micrometer and a ball micrometer both reading .0001. All three necessities and don't scrimp on cost. Oh, yes, Al Davidson adaptors for the caliper to measure O.A.L. of loaded rounds.

BULLETS - either P.C.B.C. or Berger

PRIMERS - Federal 205 M

POWDER - H 322 or T 322

Continued on next page

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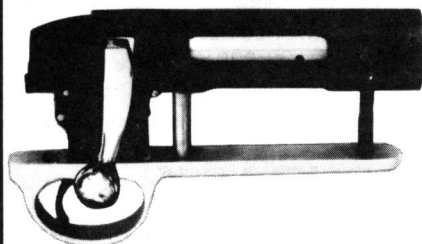
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LOADING EQUIPMENT DISCUSSION

Continued from page 9

A Kennedy Machinist tool box to house things in.

I am a firm believer in going top-shelf on my tools even if I have to wait to buy some of them. In the long run, I feel I end up saving money as I am not buying the same tool twice. The above should put me in good shape to do my loading. I just hope I don't ever have to do it. After reading your little scenerio, I got chills up and down my spine.

Off to another subject. You and I had a telecon about a project Walt Berger, Walt Niemi (a practical combat shooter) and myself have embarked on. Walt Niemi is a salesman for Hewlett Packard, peddling computerized digital signal analyzers (Fourier analyzer). Hewlett Packard (thru the back door actually) has placed at his (Walt Niemi) disposal enough equipment and personnel so that we can do some very scientific modal analysis of barrel vibrations. Walt Berger has furnished the barrels. The plan is to test the barrels, and ship them back to Walt Berger. He will then have them cryogenically frozen and ship them back to be tested again. Walt feels freezing the barrels in this manner will stress relieve them. If it does, it should very definitely show in vibration testing. Mr. Berger included among the barrels one that Lowell Frei had that did not shoot well. Lowell has kept targets that were shot from this barrel

and will re-install and shoot it after testing and treating. I don't think this type of hard scientific testing has ever been done by any of our major arms manufacturers and tends to be a very sore point with me. Down the line, we would like to test a barrel before and after treating with Pyro Dux. And later I will send my Hall Rail gun out to do this type of testing during actual firing. It will be interesting to compare the way a barrel not on a rifle vibrates and how it vibrates during firing. Hopefully, this type of testing will lead us further down the path to finding out what makes a good barrel and what doesn't. I think benchrest shooters have contributed greatly to the shooting sports in the past and will continue to do so in the future, but the major companies do not show any obvious desire to pursue good solid scientific test methods to improve what they manufacture. At least, if they do, nothing is made public. So we continue, thru much trial and error, muddling along. Enough of the Soap Box!

JIM SCHULTZ

Dear Dave,

I am not exactly one hundred per cent certain that I am the best fellow to ask this question of. I am not a PPC shooter, I shoot wildcats all the way. And I make just about all my reloading equipment. If a small fire wiped out my reloading equipment, one thing is certain . . . I would be burning the midnight oil for a while. But, if I had to buy everything, this is the way that I would be inclined, in the various areas:

Bullets - I would buy Berger, Bruno, or Euber. I have tried all three, and found them excellent.

Primers - Federal 205 benchrest primers would be my choice.

Powder - H 322 or T 322 would be my choice, and I would have to hope that it was as good as the lot I have now.

Sizer and bullet seater - I would go with Wilson on both of these.

Priming tool - I would try to come up with an old style Lee priming tool in this category.

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Powder measure - I would select a Culver measure. The measure that I made for my own use is like the Culver, except that mine is graduated in increments of one thousandths.

I don't have much input on this reloading question, but if you ever ask one where there are not any PPC cases, and you must come up with a 6MM case for Super Shooter class, don't forget me.

DICK MARETZO

Dear Dave:

Sorry it took this long to answer your letter but it has been a busy summer. Well, the "fire" is out and I am going to replace my reloading equipment. The most difficult thing to replace is the Norma 201. I don't know why it is so scarce around here but about once a year I hear that someone's third cousin by marriage just smuggled some out of Nepal by Yak caravan and if you want a case just second mortgage your house. Unfortunately I am hooked on 201. I have never tried anything else and probably never will if I can get 201. I am convinced that it is the most consistent and clean burning powder available for the PPC round.

After the powder has been replaced I

would get some Federal 205M primers and Allie Eubers 68 grain boat tail bullets. The Federal primers seem very consistent and Allie's bullets don't seem to care what kind of air they are passing through.

After these items have been replaced I would get to the permanent items. I would replace the Bonanza Co-Ax press on the bench and the Huntington compact press that travels to the range with me. The Bonanza press is the best I have seen as far as design, and the Huntington is small and light. It appears to be able to do everything the bigger presses can do.

I would then call Seely and ask him to make a new seating die with the same reamer he used on the chamber as well as a new Lyman nut cracker adapted to handle the PPC case.

The next call would be to Fred Sinclair for his neck turner, primer seater and some chamber plugs. In my opinion this is the best equipment available.

Since the Saeco/Masker converted powder measure is scarce I would probably go to a Lyman/Culver conversion. I think that most powder measures will meter out an accurate charge so the primary consideration should be the ease of selecting the desired amount of powder.

I will always double check the amount of powder dispensed by the measure with an RCBS-Ohaus 10/10 scale, for the money I

don't think you can beat the accuracy and dependability of this scale.

The case length trimmer I have always used is a Forster-Appelt and I have never had a problem with this piece of equipment although there may be others available I am not familiar with.

Next items to be replaced would be the assorted gadgets that are always cluttering up the tool box such as the Mitutoyo dial calipers and .0001 micrometer. Al Davidson's attachment for the calipers that is invaluable for accurately measuring seating depth: His bullet puller comes in handy also. For cleaning and uniforming primer pockets the little primer pocket tool from Whitetail Design & Engineering is perfect.

I think I replaced all the important items except for the picture of Seely that I used to keep over the bench for inspiration. The insurance company was willing to pay for my other losses but when I tried to explain to the agent that this also was a great loss I had to give him oxygen.

I hope this information will be of some use for a new shooter who is wondering what type of equipment to buy. I would strongly suggest that cheap substitutes end up being more expensive in the long run because you will eventually replace them.

P.S. Do not replace Seely's picture with a substitute, wait until you can afford the real thing.

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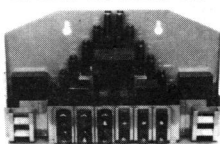
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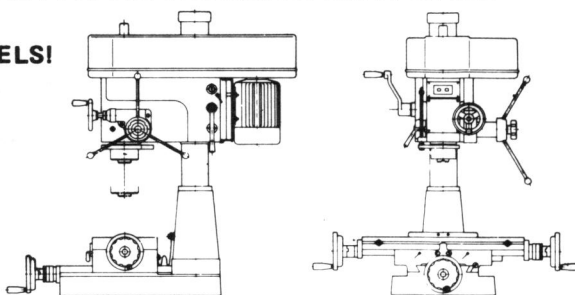
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Drilling capacity	1"	1-1/4"
Full-back cutter capacity	2-1/2"	3"
End mill capacity	1/2"	3/4"
Max. distance spindle nose to table	15-3/4"	20-1/2"
Spindle stroke	4"	5"
Working area at table	22-7/8 x 7-1/2"	28-3/4" x 8-1/4"
Right and left stroke of table	14-1/2"	15-3/4"
Forward and backward travel of table	6"	6-1/4"
Spindle center to column	8"	8-1/8"
Overall height	35-1/2"	43-1/4"
Spindle speed RPM 60 cycle	90-1920 (8 speeds)	140-2440 (12 speeds)
Motor	1 HP	2 HP
Shipping weight	440 lbs	660 lbs.

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BILL HAYDEN, M.D.

Dear Dave,

The following account of an investigative, scientific endeavor was rejected by "The Journal of Trivia, Obscurata and Negative Results." I, for one, cannot understand why, for clearly it meets all their stated objectives. Nonetheless, I thought it best to be candid with you. (I also understand you may be one of their editors; what choice have I?)

In a brief communique to you in the past I indicated that I was not a bench rest shooter; that remains strictly true. I have, however, shot two bench rest matches since that time and further, have sprung for a life membership in the NBRSA. (That in itself may tell you something, but I don't care to consider what). Be that as it may, I have flung myself (or, more correctly, dollars) into this accuracy game with gusto and abandon. My wife threatens the latter.

Having acquired a Swing rifle and traveled with the Olympic Club and Merrill Martin to Ireland and England this summer, I had my baptism of fire in long-range, big-bore shooting. Fred Sinclair built me a 1000 yard (belly variety) gun on bench-rest principals. This, of course, included a tight chamber and a tighter neck, which, in turn, required a whole darn bunch of neck turning

on my part. The neck turning for Sinclair's 6PPC was child's play compared to a necked-down .338 . . . a 30-338.

You guys, bench resters that is, don't know what case preparation is until you try to put together 100-120 prepared cases, all which will hopefully bear some resemblance one to another. You don't load 'em on the range; you show up with the whole show ready to go.

Having spent a fair time, quite pleased with a .45ACP that I could get to shoot under two inches at 50 yards, in that shooting game of yesteryear, NRA three-gun 2700's, I've now been bent about by the last several years' of Precision Shooting. I won't trace the path from being a reasonable pistol shot to an incompetent rifle shot . . . it's much too painful, and besides, the beer is getting warm.

Suffice it to say that I am awash in brass and assorted measuring devices to effectively sort them out. Which brings me to the point of this missile . . . how best to bring order to this chaos. For purposes of brevity and perhaps appropriateness, I will, in the main, attempt to confine my story to measuring PPC brass.

In the beginning (I like the sound of that phrase) I attempted to exploit redundancy by purchasing 100 220 Russian Sako cases, for I was given to understand they were good. And indeed, by comparison to almost anything else, they are indeed. So, attempting to substitute accuracy of construction (in so far as I could, knowing from pistol shooting that one can't), I plunged ahead anyway. If you can't get what you want, take what you can get . . . a paternal Welch aphorism I am sure.

Reasoning that case preparation should precede case selection, I carried out the prescribed incantations. Fire forming concomitant with breaking in a new barrel (a procedure designed by the idle rich) that took me weeks. Having acquired the accoutrements of the undertaking . . . (Sinclair, Jones, Wilson, Pease, Davidson . . . all have wonderful men's toys), I then set about refining this pursuit of the holy Grail. I cleaned flash holes and set them to a uniform depth; I prepared primer pockets; I trimmed cases and turned necks, all the while measuring everything and recording it for god knows what.

At some point, have manipulated that brass in every way anyone had recommended in P.S., I thought it had come time to select the chosen few. Employing an electronic scale (an Ohaus accurate to .001 gram) I weighed and segregated. What a feeling of satisfactions when the weight variation was so small as compared to

American brass! Yet . . . was this it? Was I there?

The first small doubts insinuated themselves into my already bogged mind when I attempted to measure body-wall thickness with the Allen tool. They were NOT uniform, or so my measuring attempts would tell me. Measuring error, inexperience, the fumbling of someone better suited to a scalpel than real precision instruments, I told myself.

Faint heart . . . plunge ahead. Off to Visalia last year. Great folks. No one laughed and my groups got smaller each day. My schedule is such that my next bench-rest match was a year late, last month. A tease, just enough tight groups to keep me going and enough loose ones to reflect my tyro status. By a process of elimination, I ended up with 15 pieces of brass that, from time to time, shot well. But what of the remainder? Of no value? When these wore out, in 1999 at my current shooting rate, what would I do? And what of all the other calibers I promised not to mention?

Surely the cutting edge of technology would permit us a process less cumbersome than the current one . . . quaint, but darn inefficient. My friends were more impressed with my piano playing than my piles of shaved and unshaved brass . . . and I don't play the piano.

At the last Visalia match, Stu Harvey impressed me with his measuring widgee and, after twisting his arm, sold it to me. It was Stu who told me of the wonders, the powers (exaggerations mine) of the Internal Concentricity Comparator. This is not new. Col. Rick Hornbeck wrote about it in P.S. last year, and more recently Stu mentioned it in a letter to you.

My dear Editor, I have acquired such an instrument and have compiled such a pile (poor choice of words) data in the last few days that I've entered it all into my computer. It is the results of this surge of data accumulations that prompts this letter to you.

As you, any most of your readers know, this device purports to measure case wall thickness. Probably wisely no one says how, but I had to know. Long ago and far away (another catchy phrase) I made a respectable living as an electronic engineer working at the then Cape Canaveral. That is not unlike stating that one was once in "transportation" when they manufactured buggy whips. Despite the antiquity of my technical knowledge, I had the temerity to call up the inventor and manufacturer and asked him how it worked, for indeed, it did work!

I believe I do understand how it works,

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but be advised I may have it a bit wrong. The heart of the instrument is a Hartley oscillator. While they were built with vacuum tubes once, now they are all solid state . . . transistors I think people call them. (Shockley at Stanford got a Noble Prize for this concept; when I was on the medical faculty at Stanford I met him. I didn't understand him then either.)

Back to Vern Juenke's invention, the I.C.C. (The Accuracy Den, 25 Bitterbrush Road, Reno, Nevada 89523 702-345-0225) Vern has constructed it in such a way that a case or a bullet rides close to a window. The proximity of this mass influences, or changes the "Q" of the coil and consequently, the AC output. Given that any batch of brass or bullets are made of identical or very similar materials, the density is a constant as is the geometry. Therefore, the variable is the thickness of the material that influences the "Q" of the coil, i.e. metal thickness gauge.

While measurements can be made, it is really intended to compare brass or bullets for variation in wall thickness. It reads in deviation units. Those of you who MUST know what those deviations units really are can find out, but for our purposes, it need not be ascertained.

The above was the smart part; the rest is really the clever part, for Vern made available a motor drive. One drops the piece of brass in, lets it rotate by motor drive slowly, and just reads the meter. If you are a real nut, it can be hooked up to a graphic recorder. That may or may not be overkill. I wrote down the numbers and then entered them into the computer. The motor drive is not overkill; I recommend it.

So what? What does a varying "Q" tell you that you really want to know? Variation in case wall thickness, that's what, and with great ease and accuracy. Again, confining myself to the easy case (pun intended), I looked at Sako brass. I measured the deviation units for every case, the range in which they fell and finally, weighed them all again. Keep in mind, these pieces of brass are as mechanically uniform as I can make them. Further, keep in mind that a thinner piece of brass may have the same deviation in case wall thickness as a thicker piece of brass; it will measure on a different portion of the scale, but with the same degree of deviation.

Having acquired this tome of data, I did the next smartest thing (to waiting for some one else to do all this and tell me about it); I entered it all in my dandy IBM-PC. Once there, one can massage the data backwards and forewords and sideways . . . and I did.

The results: First, and unfortunately, weight has absolutely no positive predictive value whatsoever. It is true, in retrospect,

if one looks at a collection of cases that are very similar, the standard deviation of the brass weight is less than those with marked variation in case wall thickness. Yes, it's true, fellow shooters; not all Sako brass is uniform. But the majority is.

Those pieces of brass with a wall variation of less than "X" are not the same as a similar variation range, but with thicker case walls . . . "res ipsa loquitur" (the thing speaks for itself . . . doctors know all about that in malpractice cases).

Of 98 cases in a given deviation range of 10 to 20 units, there were 12 cases that had deviations of less than six. Regardless of deviation range, there were 22 cases that had a deviation of less than 4. For all ranges, there were 11 cases having deviation units greater than ten and there were five cases that had deviation units of 20 or greater irrespective of range.

How did my select brass pan out? Pretty well. All ranged between 3 and 4 units deviation with one, two-unit variations . . . for my front 15; however, in my back five, I had two sour apples with wide deviations.

Any correlation to weight? Essentially none. No matter how I graphed it or cross correlated it, total brass weight correlated with nothing obvious.

So, what's it all about. Alphie? If the ICC is accurate, and I think it is, it provides a rapid and easy way to segregate brass into batches of minimal case wall variation, but of different case wall thicknesses . . . if the case walls vary . . . and they do.

Does this have a practical application? I smile at the word. I don't know. Given a test situation where the random error so exceeds the systematic error, minor refinements in the systematic error usually go

undetected. It is only when one can reduce the noise, the random error, to an order of magnitude less than the systematic error then one might see the difference.

Does it make logical sense? Of course it does. Can it be proven on the range? I suspect not. Has it brought order to my reloading room? To a substantive degree, it certainly has.

As I write this, it occurs to me that long-range, big-bore might be a more suitable test bed, for there, the random error is so much greater than in bench-rest shooting, the difference might well be evident.

In the current number of P.S., provocative Editor, you pose the hypothetical question of what do you do after the barn burns down? Me? I take up mumbly-peg. Being a doctor (as opposed to a dentist) is a guise; I'm really a farmer. I'm not sure if I can come to grips with that replacement dilemma; I'm not sure you could stand the answer.

With warm regards
William G. Hayden, M.D.

P.S. I couldn't possibly dictate this to my secretary. Good help is hard to get. All the above errors are my very own, and, in part, the responsibility of Sister Mary Joseph in the fourth grade . . . I was the one in the fourth grade.

P.P.S. On second thought, there are a number of items that come to mind one would need for reloading . . . basic stuff of course, keeping in mind that you can't always get what you want, but you can always get what you need. (ref. father, circa about the time I had to go to work).

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History of Fiberglass Stocks

by Chet Brown

I'll try to tell this story as seen through my eyes, not so much the part we, Brown Precision, played in fiberglass stock development because we haven't done everything, but this is the way I see it - this is how it happened from where I sit, and of course you never quite know the whole story, so if I should omit someone or some details please forgive me. I'll give you the basic concept on how fiberglass stocks got started and give you a good idea where they are today.

I'd always been interested in lightweight rifles, especially hunting rifles, and I'd built two in the mid 60's. One for a friend of mine from Fresno, Gene Mansfield, and one for myself. They were light by Jack O'Connor standards. They were 8 to 8½ lbs. with scopes and both 30-06's. I built these as hunting rifles to get around better at high altitudes. When I started shooting benchrest in 1966 I was interested in weight and weight reduction from then on, and tried to build lightweight rifles and do some lightening tricks. Sometimes I was successful and sometime not, but I was shooting in a Hunter Bench class in California that had basically the same rules as our Hunter Bench has today. I had a 10 lb. rifle and 6 power scope on the 2¼" forearm. I entered competition with a heavy barreled Mauser that I did quite a few lightening touches on to get it down to the 10 lbs. such as replacing the magazine followere and a few other odds and ends.

The whole fiberglass concept started when I took my family down to Disneyland on vacation and stopped by Lee Six's in Fresno for a couple of days. We shot doves and bull (reverse order would be more appropriate). We talked about our upcoming hunting trip to Idaho. We'd been going there about seven years and getting some pretty nice mule deer. From there we went on to Disneyland and visited with my brother C. K. Brown an aeronautical engineer. I was explaining our problem of weight and mostly the problem of bedding being so fickle. How a rifle would be shooting good through half a match, then turn off in the middle of a match. How, if you traveled over a range or two of mountains you couldn't depend on it shooting accurately. I explained a little bit of the weight problems then. He very plainly and quickly said "well the stocks should be made out of fiberglass. Is there any rule they have to be made out of wood"? I didn't think there was, but I went back in the rule book and found out there wasn't. It made sense to me, especially when he explained the

expansion of fiberglass was very near that of steel so you didn't have to worry very much about that. The expansion of fiberglass is lower than aluminum so it may possibly give a little trouble on sleeves. With that in mind, I went back and went to work.

One of the first things I did was take a .722 stock and hollow it out. I skeletonized both the butt stock and forend to where they were just slivers of wood, then I filled them with Polyurethane foam, reshaped them, then went over this area with fiberglass. The next thing I did was to skeletonize the receiver portion to make it a solid fiberglass block.

For this particular rifle I had a 12" sleeve I'd made. I was shooting a .308. I bedded the sleeve in this stock and it was a real gooney looking thing with this big sleeve sticking out of this little bitty .722 stock. The concept really turned me on even though the stock had a case of the uglies. I never took it to a match, not because of the uglies, but the gun wasn't shooting good, and I found out later the barrel was bad.

I'd done all this wood removal, foam replacement, etc. and ended up with the stock weighing about the same as when I started, which was around 2½ lbs. This got me cranking - here I had a stock supposed to be impervious to weather conditions and for all practical purposes looked like it was going to make it.

Well, I postponed the project because of hunting, Christmas, etc., then right after the first of the year, Lee moved to San Jose. We were both working for the Telephone Co. at the time. By the time he got settled in, I was pretty well along on making this first mold. I made one mold first trying plaster of Paris which was an utter failure. Lee had shot a little bit of Hunter Bench in Fresno and was accuracy oriented and interested in the project, so when we picked up and got started together we decided the way to make a fiberglass stock was in two pieces, then glue the two pieces together.

We made a pattern and I think Lee made the first pattern out of a piece of redwood taken off a fireplace mantel in my home. We made a sleeve stock pattern then split it in two using some vacuum foaming techniques and fiberglass to make the mold. When we formed these we didn't have a vacuum pump so we hooked the vacuum forming hose to the vacuum line on the intake manifold of my jeep. It worked pretty good. This gave us a two piece mold that we made half the stock in each piece. We vacuum formed the fiberglass in each half, then ground the flanges off and glued the

two halves together.

The first two pieced mold was a success, but there were a couple of things wrong with it. We knew the stocks were plenty strong but we didn't see how we could convince the public that a hollow thin walled stock would hold up. Another thing was the time consumption was just ridiculous. We probably had a couple hundred hours in building the stock and gluing the halves together.

Our first hollow stock was a success except the darned gun wouldn't shoot! We were still having barrel problems. In one shooting session Lee found out we had to take all the tension off the guard screws then (with a new barrel) the gun would shoot like a house afire, anything tighter the gun would double group, a sign of bad bedding.

These first days we had so many problems with mold releases, cure time, mixes, it was a bunch of comical errors one after the other. I'll never forget the time my wife was helping me make a mold and I was trying to spray Polyester resin which is the boat resin. We were working on our freezer in the garage. That poor freezer looked like a melted ice cream cone before we were done with the drips and runs down the sides! I was just using a cheap spray gun because I didn't want to ruin a good one, when the air pressure blew the pot off the gun and about a pint of resin went right down the front of me and all over the freezer and floor. I was walking in resin and had it all over the front of my pants. The cleanup was impossible. We never did quite get it all up.

Another one was on New Years day, Stanford was playing in the Rose Bowl. Lee and I were making a stock in a brand new mold. We had it under 10 or 12 pounds of air pressure and were getting impatient for it to cure, so we set it up in front of a 1000 watt heater and went in to watch the football game. We came out about twenty minutes later to find the stock had a bad case of the bulges. The air pressure and head had bulged the fiberglass mold so it looked like an overgrow baseball bat. By the time we got the air pressure off and the mold apart and the heat back on it, we never ever quite got the mold back to its original shape, but we came pretty darned close.

Another time that has the funnies is when we were filling one of the first stocks we made in that sleeve mold. We filled the receiver section with solid glass which made it pretty heavy, then we decided to fill the back end with Polyurethane foam. I had worked with the foam a little bit on that first

wooden stock I skeletonized, but we had no idea of the proportions that it took, so we decided that three ounces would be plenty to fill the back end and if it got to be too much I'd put a board over the top of it and capture the foam so it would just all stay in the stock. This was the first pour I had made of any consequence. I'd poured foam a lot but always in little bitty quantities. Well, I made this pour and the foam kind of took its time, then it started coming fast, so I grabbed a board to put over the end of the stock. I was standing there looking off into space and the foam built so much pressure that it bulged the butt stock to where it was pretty near round and split out a seam then started running out the side. Those were the good old days where everything was a trial and error - with lots of errors!

We learned quite a lot from that two piece stock. We found that once the action was bedded it was very accurate. But only if the guard screws were extremely loose. We found we could build a strong stock that weighed very little over a pound. We had three public acceptance problems. First was to teach people that the guard screws had to be real loose. Next was to convince them that the thin walled flexible stock would stand the gaff. The last big hurdle of course was to overcome wood. People had thought in terms of wood stocks for hundreds of years. We're still working on this with our hunting customer.

The answer to the first two problems was to fill the stock. This would make it feel stronger because it was less flexible. With a filed stock you could use conventional bedding techniques and screw tension. We had to fill the stock for public acceptance, but we also had to make the stock in one piece to make the labor factor more tolerable, so we searched for a way to make a one piece shell inside a mold. We finally came up with a plastic bag system. We made the bags, then expanded the fiberglass inside the mold with air in the bag. Another problem was that we were making our molds out of fiberglass and epoxy resin, and were also trying to make the stocks out of the same material so the two wanted to stick to each other. We had a heck of a time getting a mold release procedure established so that we didn't make one mold and one stock, then have to make another mold to make another stock, because we really had some sticky problems and most of the conventional mold releases didn't work for us. We went to the experts and they'd come up with a new release so we'd make another mold and then have to make another stock, then ruin them both. But, we finally overcame that. Once we made the stocks in the form of a hollow tube inside a mold, then it was just a simple matter of

Continued on next page

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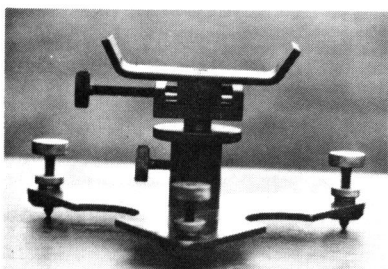
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HISTORY OF FIBERGLASS STOCKS

Continued from page 15

filling them later. We settled for Polyurethane foam in the front and back with an epoxy and fiberglass micro-ballon mix in the receiver section. This solved the rigidity and screw tension problem.

The first stock that got out of our shop on anybodys rifle was a result of a phone call. Neal Knox called me about the Little Wiggler I'd been making for four or five years. He very innocently asked "what's new" so I told him we were working on a fiberglass benchrest stock. He called Dave Wolfe over to the phone and we talked for over an hour. At the time I was going through more speculation than honest-to-goodness fact because I really didn't



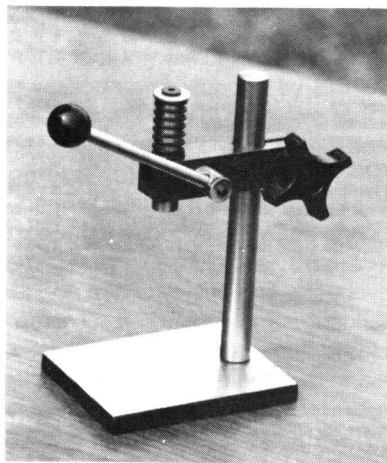
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know what it was going to take to manufacture these things. We'd just made half a dozen stocks for our own use and hadn't really settled on a pattern at that time. I promised Dave that he'd have the first finished rifle that we made for anybody else. It wasn't but just a few weeks until we received a 40x action from him with a factory .223 barrel on it. I made a sleeve and put it on. We stocked and bedded the gun. Dave had mentioned his wife liked blue, so we painted it Robbins Egg Blue. This is the rifle he refers to as Blue Boy. We didn't have a chance to shoot the gun, so we just shipped it to Dave and he shot it once or twice then rebarreled it with an A & M barrel chambered in .222. He had a chance to shoot the new barrel twice before he took it to the Speer Shoot in Midland, Texas where he placed seventh out of sixty-seven shooters in the Light Varmint class. The blue stock caused quite a stir. Dave called me at home and was absolutely elated that he had done so well in his first registered shoot. Just a month later Dave took second in the Sporter Varmint Nationals behind Donnalee Stekel. Neal Knox doubled over with the rifle and placed thirteenth. This was a 6x47 with an A & M barrel and our sleeve.

In the 1971 Unlimited Nationals quite a few shooters saw our guns and stocks. There was a lot of skepticism. Some people jumped right in with both feet, but most layed back to see how things were going to come out. A very dear friend of mine, Stu Harvey, told me he knew it was a good idea, but he would never change from walnut. Four years later he broke the NBRSA Light Varmint record at 200 yards with a gun we had stocked for him out of fiberglass. That record holds good today "1982".

At the 1971 shoot I met Jerry Rogers and found out he had shot his own fiberglass stock in the 1967 & 1968 Varmint Nationals. He won the three-gun aggregate one year and the Light Varmint the other. Up until that time I was sure the idea had been originated with my brother. Jerry and I laugh about that now. He knew it could be made to work, but didn't think it had any future. He did do things a little different. His forearm and butt stock were fiberglass, but the receiver was a walnut block.

Gale McMillan stocks started to make the scene in 1973. His first stock was universal to take either a sleeve or custom action. After that he made an international. In 1973 Gale's brother Mac shot the .009 worlds

record group using Pat's barrel and Gale's stock. Neal Knox gave this match a really good write up in *Rifle* magazine.

Several people (myself included) tried adding 3 lbs. to a 10½ lb. rifle. The thinking being that the extra weight would help accuracy in the HV class. I think we all found out that the gun was a little easier to shoot, but not a bit more accurate. The problem being the weight wasn't added on the line of the center of gravity or better, the center of the bore. I really think that one of the reasons a fiberglass stocked rifle shoots so well is that there is approximately the same amount of weight above the bore as below. The scope and mounts weighing just a little over a pound and the stock about the same.

Until 1975 there were just two companies making fiberglass stocks. At that time Orlin Gilkerson started making a sleeve stock. It was made of Polyester resin and fiberglass cloth formed over an all-foam core. It had to have a gluein or pillar bedding system.

In 1977 Lee and I decided to split up. I was on the verge of retiring from the Telephone Co. and wanted to get out of the bay area. Lee had a few more years to work and wanted to stay in San Jose, so he formed his own company Six Enterprises, and I carried on with Brown Precision.

In 1978 George Kelbly started making fiberglass stocks out of Polyester resin and cloth. He used a jell coat and ended up with a real smooth finish. I just talked to George and he had dropped the project for a year or so but is starting in again. He wasn't too happy with his first stocks as they were too flexible. He's worked that problem out and the new stock should be real rigid.

Tom Houghton of H. S. Precision started making his Fiberthane stocks in 1979. They aren't a true fiberglass stock but dense Polyurethane foam with glass fibers. His are universal stocks in that they have a blank receiver and you inlet it for the action you want to put in. Tom makes hunting, benchrest and silhouette stocks. Also in 1979, Jim Garrett of Salt Lake City started making hunting stocks of fiberglass. Jim is an old friend of mine and is very technically oriented. As far as I know, he uses the same basic process and materials that Lee and I use. For several years he built custom rifles for himself and friends with our stocks. When he quit Semi Conductor he started his own production. He builds finished hunting rifles as well as stock blanks.

In early 1980 we moved Brown Precision Inc. to Los Molinos, California. That's about 200 miles north of where we were. We have been real pleased with our new location and are concentrating on hunting stocks and finished rifles.

You may ask yourself "why haven't the big companies started using fiberglass?" Well they have. Steyr Mannlicher makes an

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injection molded ABS stock. It's rigid and tough, but heavy. We've sold a few stocks to Remington and Ruger as I'm sure the other manufacturers have also. The big problem is that the stocks are labor intensive. They have to be made, bedded and finished by hand to be light. They can be made by injection molding but they would be heavy, plus the machinery would cost about half a million dollars. Then they would have to convince the public.

This makes you people (accuracy nuts like myself) a special breed. It just took ten short years to make a tremendous conversion. Pat McMillan once told me "we put men on the moon and there wasn't a stick of wood on the space ship."

By that time orders were coming in and we only had one mold. We were working in my garage, and did for another eight years. We built a rifle and sent it back to the NRA Show. It was shown in a shooting magazine booth. Earl Etter wrote an article for the magazine, but didn't put our address in it. Some people that knew me through benchrest shooting or the Little Wiggler, tracked me down and the race was on. Steve Silver saw the Heavy Varmint rifle at the NRA SHOW and ordered a Light Varmint rifle. This was the first one to go back east. It was Chinese Red. It also attracted a lot of attention. I received

several reports from people about how he very ceremoniously got the gun out, set it up, then stood back not saying a word, just watching the reactions.

In the winter of 1971 Bill Summers from Long Beach called me. He had to have a gun made. We sleeved and stocked his first Light Varmint rifle. It was a 40x in a .222 R with a factory barrel. He picked the gun up at the 1972 State Shoot and won the State championship with it. I won the Sporter class with a 6x47. Bill was an engineer working for Douglas Aircraft at the time. He was really sold on the concept of fiberglass and at a shoot in Arizona tried to sell Pat and Gale McMillan on the idea. He did such a good job that Gale started to make his own fiberglass stocks. The first one I saw was at the Tulsa Super Shoot #1 in 1973.

By the time of the Varmint Nationals in 1972, the list of fiberglass stock shooters was pretty impressive. Perry Morton, Tom Metzger, Pete Callan, Dave Wolfe and his wife, Neal Knox and Jay Knox, Benny and Bobby Burns, Larry and Dawn White, Jack Williams and many, many more were all shooting fiberglass stocks in at least one class. Lee and I attended this shoot and shot Light Varmint and Sporter all the way through.

In 1973 and 1974 Perry Morton won the

three gun Nationals and Sporter class using our fiberglass stocks. The whole world turned upside down for bench shooters! In 1974 there were seven fiberglass stock shooters in the top twenty three-gun aggregate that were from Indiana. Fred & Beskip Sinclair were two of them. Fred started building fiberglass stocked guns in 1971 and 1972, and of course is still one of the top builders. Remember at this time there were still lots of wood stocks in the Heavy Varmint class and some in the Light Varmint and Sporter.

In 1972 Selby Wright and Jim Steko were glueing in barrels and Lee and I were glueing in actions. There were several advantages to glueing in. One, you solved the bedding problem. Two, you could use a hollow or at least a lighter stock. It wasn't too long until most glueins swung around to the action being glued. I still don't think that a gluein bedding job is any better than conventional, but it sure is easier to do. Also in 1972 Lee and I started building fiberglass hunting rifles. His was a 7 Mag. model 70 that I had rebarreled and mine was a Remington .788 x .308 W. We used the rifles that year in Wyoming and both shot elk with them. The next year three of us shot moose in British Columbia with them. Maynard Meadows from Oregon went with us and used a .338 in fiberglass.



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BISLEY '85

by Skip Gordon
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(Photos by the author and Stan Buchtel)

While it is true there exists no single body governing benchrest activity throughout the world, it is also true that the great distances separating practitioner are no longer considered unsurmountable. Individual shooters, in ever increasing numbers, are taking it upon themselves to find out what it's like to compete with their peers in foreign lands. Since 1976, when the first American shooters visited Australia, the number of competitors making "the big trip" has steadily grown. In the past several years we have hosted men from Australia, Austria, France, Germany, Iceland and Italy at ranges throughout the country. Additionally, trio of English observers visited in 1984. In addition to Australia, our shooters have taken their gear, and their knowledge of the game, to France, Germany, Italy and Sweden. And, in September 1985, England was added to the growing list of countries visited by the Yanks.

Many believe the "internationalizing" of benchrest is a desirable development. These same people believe we, the U.S. community of shooters, have an obligation to take a major part in such an endeavor. It is, after all, a sport developed and refined in this country; it's something we take pride in, and enjoyment from; we are blessed with an abundance of technical and administrative expertise, and our shooters are assuredly some of the finest in the world. The truth of the matter is that, by and large, shooters in other countries need all of the help they can get, and are immensely

enthusiastic when given the opportunity to talk to shooters from the States.

Which is not to imply that going abroad to compete should be an exercise in religious fervor. Just the opposite is true; the reason to visit foreign shooters is to enjoy their company and their countries - the sharing of knowledge will come naturally. Nor is the learning process a one way thing; there are precious few who have shot in Australia and Europe who haven't brought something back to the States. Certainly this is true of the seven men who were privileged to visit England in September.

In October 1984, following matches in Germany and France, a group of American shooters had dinner in London with Peter Taylor, George Swenson and Neil Jones, President of the fledgling British Bench Rest Shooters Association. The English had a major problem; although there was a core of enthusiasts, they felt cut off from the benchrest world. Many were growing discouraged, and all were frustrated by not having any source of first hand information. NBRSA President Walt Berger suggested that perhaps it might be helpful if some Americans visited England "some day" if, indeed, Neil felt it might be of help. With all of the quickness of a child picking a dollar bill from the sidewalk, Neil issued an immediate invitation to all present for "next September".

On Wednesday morning September 18, 1985, there appeared at London's Gatwick airport seven somewhat weary benchrest shooters, all with rifles and gear. Each had eagerly accepted BBRSA's invitation, and each had gladly undertaken the trip at his personal expense. On hand were Walt Berger (AZ), Stan Buchtel (OH), Steve Gibbons (GA), Bill Hall (KY), George Kelbly (OH), Ed Shilen (TX), and Budd Lake New Jersey's resident enthusiast.

Working closely with Neil, a three day program had been developed to maximize contact between visitors and guests, both on and off the range. (On Thursday, a day given over to recovering from the trip, the Americans were taken to Portsmouth for a tour of England's famed port city and naval base; like everything else during that week, it was perfect.)

Friday morning was devoted to preparing the rifles. Powders available included H-4198 and H-322. The only primers available were Whitavours (Finland), and no one had a clue! Those good folks who operate out of Foshay Tower in Minneapolis could have named their price for a carton of 205's!

The Little Siberia range at Bisley is 300 yards, but on the occasion of this weekend activities were limited to 100. It could be a superb benchrest plant with ample space

for thirty benches. The terrain is level and grass covered . . . good; it is surrounded by forest on three sides, and the wind does weird and wondrous things . . . not so good. There were a number of "stake and ribbon" flags, plus a trio of quartered "foam ball" indicators contributed by Walt Berger.

The temporary benches were certainly adequate for this program, though some were more stable than others. There was, of course, no backer system, and targets were changed as in the military, ie. from butts - or pits - down range. In practice a shooter reported to the Range Master, and told him what target number he planned to shoot. The information was relayed to the target crew by walkie-talkie, and they in turn posted the target card which included the shooter's name. Each card had a sighter target, plus three for record. No time limit was in effect.

As we understand it, targets without an earthen berm immediately behind them are not acceptable. Consequently, when registered competition is undertaken at Bisley BBRSA will have to do one of two things; either move the benches, or utilize a different range for different stages. Chances are the former would be most satisfactory; and although no temporary bench will ever be as stable as one permanently built on a concrete pad, a reasonably solid table can be portable.

After lunch Friday was a time for practicing, and getting to know the early arrivers. The procedure established was the one used throughout the weekend; the Americans would clean and reload, pick up rifle and Case-Gard box, and ask the first person they came across, "would you like to shoot it?" It worked well, adding precisely the air of informality everyone had agreed was desirable, and also proved an effective means of overcoming the traditional English reserve.

Friday evening was the occasion of a lengthy question and answer program following dinner. The questions covered all facets of the game, and the session was halted only by the call of "time, gentlemen". It was, according to many of those who attended, an unqualified success - possibly even the most significant hours of the weekend. For the first time ever answers could be obtained regarding bullet making, gunsmithing, scoring targets, barrel making, condition doping, reloading, rifle cleaning, etc. Steve Gibbons, talking about that evening, summed it up thusly, "That's why we're here, and if we answered all of the questions, the entire trip, from my point of view, has been a success".

Saturday and Sunday were spent shooting. As noted earlier, informality was the key. It was agreed that everyone's first card would be the one counted for score.

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However, everyone was encouraged to shoot as often as he, or she liked. The "match" consisted of three record targets on each day, and the Grand would consist of the six.

Scoring was done with a dial caliper. The crew consisted of Ed Shilen, Conrad Gordon (the author's son, an army officer stationed in Germany), and me. There was great interest in the scoring and figuring of aggregates, and most shooters retrieved their targets for souvenirs. The results were extremely pleasing because the Americans did NOT dominate.

Saturday

Match #1	Bill Hall .187 George Kelbly .208 Peter Leetham .260
Match #2	Tony Wilson .212 Robert Maiden .236 Harry Griffiths .313
Match #3	Peter Taylor .168 Steve Gibbons .186 Jim McAllister .206
Agg.	Peter Taylor .314 George Kelbly .314 Bill Hall .379

Sunday

Match #1	Neil P. Jones .290 Stan Buchtel .315 Joe Board .325
Match #2	Bob Morse .232 Jan Behrman .344 Neil J. Jones .352
Match #3	Steve Carthy .251 Ed Shilen .288 Neil J. Jones .302
Agg.	Steve Carthy .364 Neil J. Jones .375 Peter Leetham .405
Grand	Peter Taylor .4025 Peter Leetham .4235 Bill Hall .4250

It was interesting to see if there would be any appreciable improvement in the shooting. Of the English attendees who shot both days, 70% apparently profited from the coaching and familiarity with the rifles. Overall, the average aggregate was reduced by 20%.

It was Bill Hall who suggested it might be appropriate to leave something in England that would benefit BBRSA, and to some extent serve as an on-going expression of friendship. That "something" was a Hall rail gun. In addition to Bill who built the base and return to battery rests, the contributors included Walt Berger, Steve Gibbons, Ed

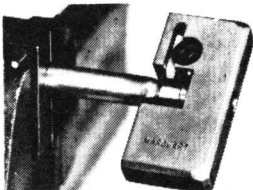
Shilen, George Kelbly, Leupold & Stevens, MTM Molded Products, and the PPC Corporation.

As if memories weren't enough, all of the Yanks came home with Surrey Club lapel pins, BBRSA T-shirts, and beautiful, personalized crystal paper weights. (The Surrey Club is one of the older and most prestigious clubs at Bisley. The walls are covered with shooting memorabilia going back to the start of the century, and there is a wall case of silver trophies that would be suitable for a silversmith's shop. We were privileged to have our breakfasts and dinners at the Surrey, not to mention many drinks, and many hours of good talk in the bar.)

There is no question in the writer's mind that active benchrest competition will soon become a reality in England. The most important ingredient is enthusiasm and a leadership willing to make extraordinary efforts; both already exist. Next, someone in the trade, someone with the necessary knowledge of importing and distribution must step forward - someone like Pete Hammerich in Germany. Because of the high cost of imported products - tariffs and taxes make everything quite expensive - the agent must be willing to accept only a marginal profit. On the bright side, George Swenson's Swing action has real benchrest potential; George spent a lot of time huddled with Kelbly and Shilen. Too, Madco barrels from Australia should be available at a relatively good cost, at least our understanding is that Commonwealth countries qualify for certain advantages in so far as importation is concerned. Scopes are going to be costly, at least until a European manufacturer offers something suitable. As far as stocks are concerned it is simply finding someone willing to invest the time to learn the techniques; Lee Six, for one, has assured me he will work with anyone who might be interested. The same is true of bullets; one of the most recurring topics of discussion was bullet making, and I suspect there will be home grown projectiles available in the U.K. within the year. Finally, a reliable source of powder and primers must be developed.

Continued on next page

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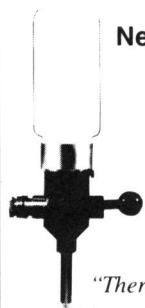
BISLEY '85

Continued from page 19

We also suggested that BBRSA establish contact with the troops in France, Germany and Italy. Not only will they be able to profit from the experiences of their peers on the continent, but there is now some excellent gear (actions) and components (bullets) being manufactured there.

There is certainly no question in the minds of Neil Jones and the other shooters about the future of benchrest in their country. In fact, they have already obtained a magnificent crystal bowl which will be awarded at a Championship tournament scheduled for September of 1987! The American contingent **already** numbers seven, and we would hope for considerably more to be on hand for what promises to be a most significant event.

For those wishing to meet some of our English friends, plan on making it to the NBRSA Championships at Kelbly's Range, in July. Too, we are optimistic that a number of them will be with us in September for the matches in Italy and Germany. Any of you interested in making **that** trip - it will take approximately three weeks - should drop me a note. (P.O. Box 233; Budd Lake, NJ 07828).



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The writer has been privileged to humiliate himself on benchrest rifle ranges throughout this country, Australia and Europe. Over the years we have been involved in a number of benchrest activities which have given us much pleasure, and a modest degree of satisfaction. However, nothing we have ever done exceeds the sense of **accomplishment** felt after those days at Bisley. And no letter we have ever received has meant more than one from Peter Taylor, in which he wrote:

"For myself, and on behalf of everyone else, I would like to say a very big thank you for your kindness, your consideration and your generosity so freely given to all. The conviviality and companionship was great and will hopefully be remembered as the first of many more such occasions, on both sides of the water for years to come."

In closing, I would like to thank Neil and Jean Jones (that dear lady prepared "care" packages for each of the Americans, which included coffee, tea, cups, biscuits, towels, a hot plate and a space heater) for all of their efforts; all of the English shooters who made us so welcome; and, of course, my fellow travelers each and every one of whom is someone very special.



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#3

Yvonne Lewis under the watchful eye of Walt Berger.



#4

It didn't rain on George Kelbly's parade.



#5

Ed Shilen takes a look down range between shots.



#6

Neil Jones has the look of a man worried that everything might not be perfect. He needn't have.



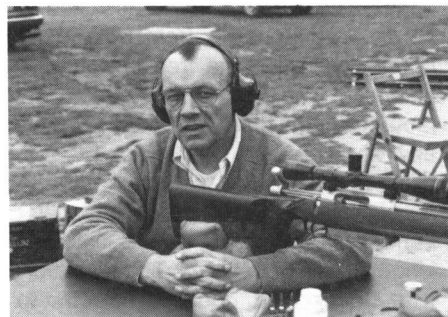
#7

The first benchrest group shot at NRA Bisley by an American was a .460 by this fellow.



#8

Stan Buchtel bears down . . . it didn't help all that much.



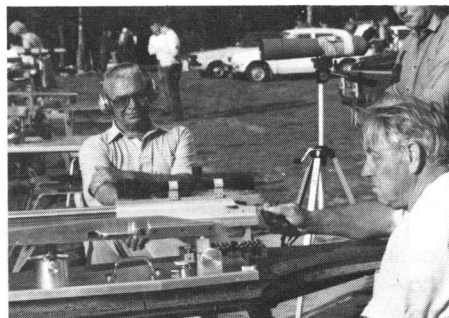
#9

Peter Taylor won the day on Saturday, and the Grand.



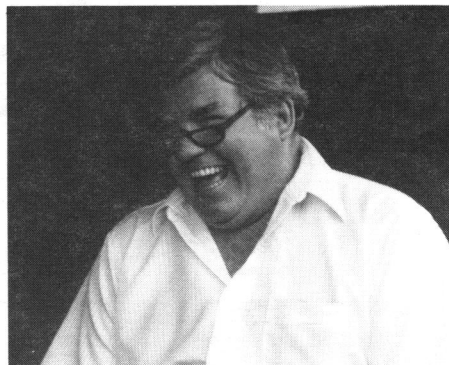
#10

Steve Carthy took aggregate honors on Sunday.



#11

Bill Hall spent a lot of time explaining the subtleties of shooting a rail gun.



#12

Steve Gibbons may someday learn to relax and have fun.



#13

Walt Berger (L) with George Swenson and Bob Morse. (That English damp is hard on an Arizonan)

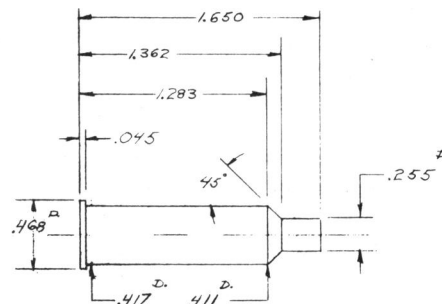
BOB SIMONSON

Dear Dave,

Just a quick note. Enclosed is a sketch of my favorite case. This particular version is in .234 caliber, that I and a few other shooters have been fooling around with.

I also shoot it in .224 and .243 calibers. It is formed from .225 Winchester brass.

Best regards
Bob Simonson, Sr.
Schoolcraft, Michigan



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PRIMER TESTS

by
Steve Chernicky

Dear Dave,

I have been following your pursuit of the perfect accuracy cartridge with interest. I have suspected for some time that some variables in my shooting might be a result of (to some extent) variations in primers. Some of your recent articles in P.S. have touched on primer variations but have not provided any definitive answers.

Back in 1982-83 Al Angerman and Rick Hornbeck each had a good article on primer variations. Since I am interested in actual performance variations, I was particularly impressed with the primer flash photos in the March 83 issue of P.S. After recently reading of others using primers to shoot BB's over a chronograph to measure primer performance, I called Rick Hornbeck to see if any other methods may have been used in the past to evaluate primer performance. Rick said he has used primers in the past to shoot BB's but he felt that fouling after every shot provided more variation than the primer itself. Rick indicated that infrared heat measurement might be a good test parameter to look at. I mentioned that I was developing a pressure/impact test fixture for evaluating primer performance. After this and similar calls to others who have been shooting for some time, I began to find myself in the middle of a full scale primer test.

Well here it is a few months later and I am so sick of primers popping that I doubt that I will ever make any popcorn again.

Primer testing was divided into three major test areas:

1. Pressure/impact test fixture results.

2. Primer flash photography
3. Chronographed velocity and standard deviation in a 6 PPC.

Note: Heat measurement as suggested by Rick Hornbeck was not included due to cost limitations. In order that an infrared detector would not be destroyed after each firing the test fixture would require a lensed test system with remote infrared detection. This test system would need to be capable of detecting a ten microsecond event in the 2 to 12 micron infrared spectrum.

If any readers have the equipment to instrument this test I would be glad to supply any needed supporting information.

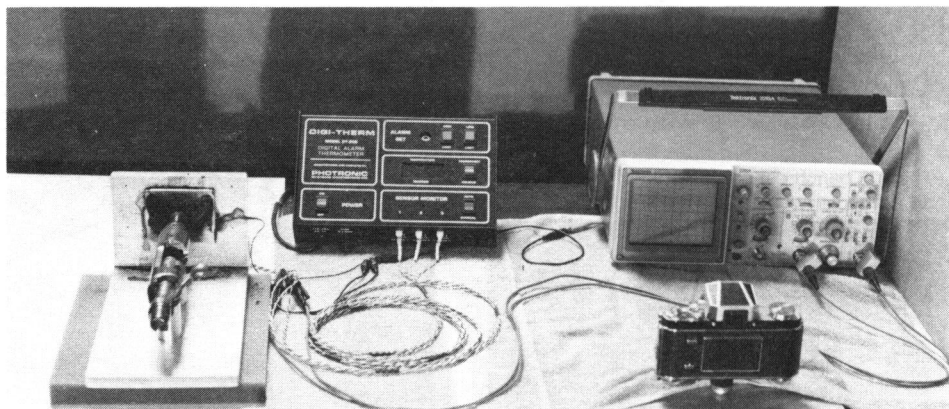
I do agree with Rick that good infrared data should give a valuable indication of just how well a primer is capable of igniting powder.

—ON TO THE TESTS—

The primers evaluated were all small rifle and consisted of different lots of the following:

1. Federal	200	
2. Federal	205	
3. Federal	205M	
4. Remington	7½	
5. Winchester	WSR	
6. Fiocchi	SR	
7. CCI	400	
8. CCI	450	
9. CCI	BR-4	
10. RWS	4033	196?
11. RWS	4033	1972
12. RWS	4033	1981

Note: No lots of RWS primers with date codes later than 1981 were available in the U.S.



TEST #1 Pressure/Impact Fixture Test Results

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The pressure/impact fixture test consists of a pressure transducer made from KYNAR piezo electric film sandwiched between two pieces of aluminum and sealed to protect it from hot flame and gases. The transducer was designed to be as free as possible from oscillation or harmonics within the frequency range of interest. It was then vibration isolated when mounted to the test fixture base to eliminate any vibration from the firing pin fall from being recorded. The test fixture utilized an action from an XP-100 in 221 REM. cal. The barrel was shortened to two inches bore length ahead of the neck. The output of the transducer was coupled directly to a Tektronix dual trace oscilloscope configured in an event triggered single sweep mode. Photos on a 35mm camera recorded each primer detonation.

The transducer not only measures the pressure wave from the burning gases of the primer but also the impact of any burning particle mass on it thus giving a very accurate measure of primer uniformity.

Temperature was monitored during the tests to insure that test data was not affected since the piezo film is somewhat

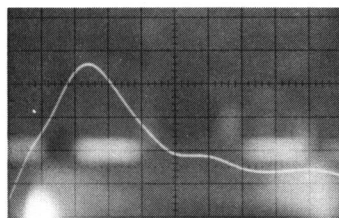
sensitive to temperature. Monitoring indicated that the heat sinking of the test fixture was sufficient to prevent temperature from affecting the test data.

Each primer lot was tested using the same 221 case. The primer pocket was cleaned after each shot. A series of 20 shots were fired from each primer lot. Test shots

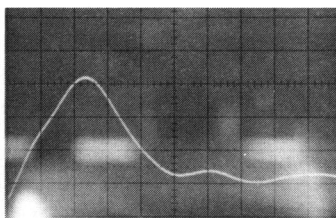
were fired from a control lot of primers before and after the tests to verify there was no drift in test fixture performance.

Typical test photographs of the different primer types follows:

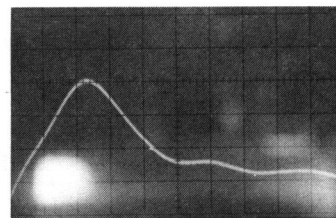
Note: Oscilloscope was set at 10 volts per division vertical and 5 microseconds per division horizontal.



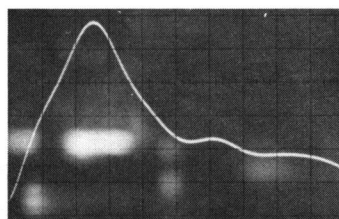
Federal 200



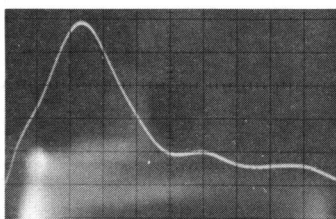
Federal 205



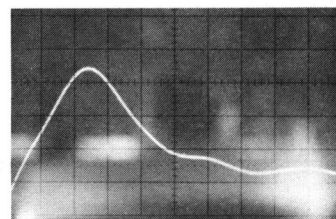
Federal 205M



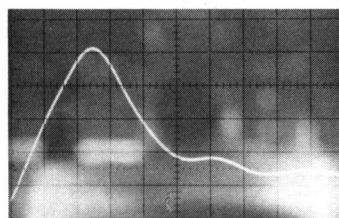
Remington 7 1/2



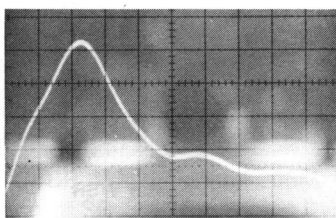
Winchester WSR



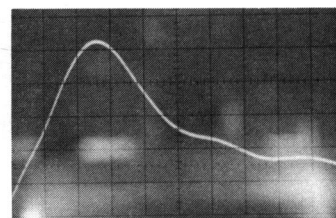
Fiocchi SR



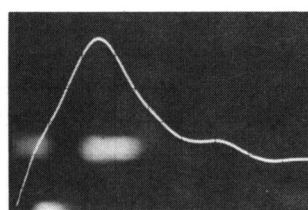
CCI 400



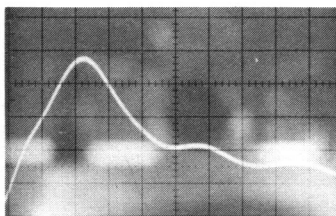
CCI 450



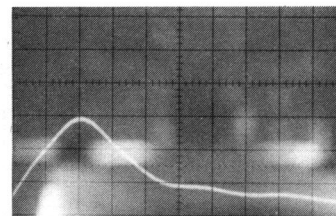
CCI BR-4



RWS 196?



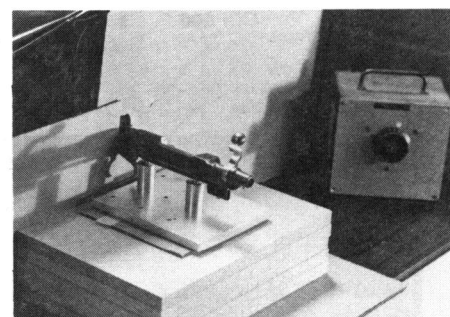
RWS 1972



RWS 1981

Pressure/Impact Fixture Test Summary

Primer Type	Rise Time to Peak		Peak Amplitude	
	% Variation	mic-sec	% Variation	volts
Federal 200	15.6%	12.2	20.4%	44.5
Federal 205	15.4%	11.8	24.4%	39.6
Federal 205M	8.3%	11.7	13.6%	41.8
Remington 7 1/2	7.3%	12.5	15.3%	55.9
Winchester WSR	16.6%	11.7	46.8%	52.9
Fiocchi SR	7.7%	12.1	17.2%	42.7
CCI 400	7.8%	12.3	27.1%	53.0
CCI 450	16.8%	11.3	30.2%	48.2
CCI BR-4	7.6%	12.7	9.4%	50.7
RWS 196?	7.9%	12.3	33.9%	49.2
RWS 1972	8.3%	11.2	17.4%	50.4
RWS 1981	16.0%	11.0	79.6%	33.6



TEST #2 Primer Flash Photography

The primer flash photos were taken using a refinement of the method described by Al

Continued on next page

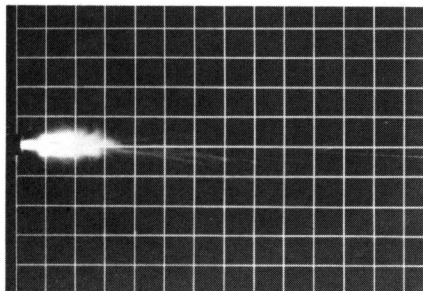
PRIMER TESTS

Continued from page 23

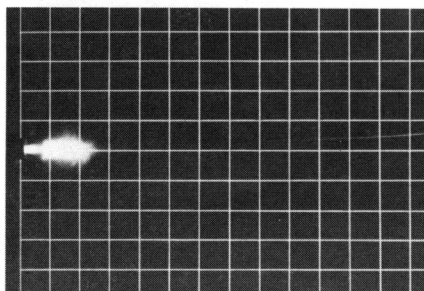
Angerman in the March 83 issue of *Precision Shooting*. The photos were taken in front of a one inch grid pattern fabricated on a piece of $\frac{1}{8}$ inch thick translucent plexiglas. The grid was illuminated from the

rear using a single 25 watt lamp. All photos were taken at night using a one second exposure on ASA 400 B&W film. The primers were fired from an XP-100 action in 221 REM cal. The barrel was shortened

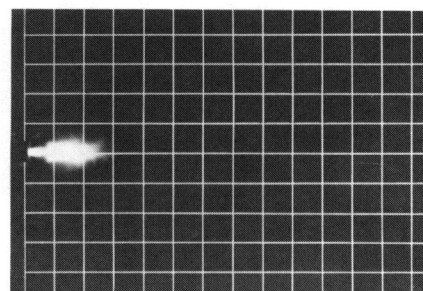
to a bore length of two inches in front of the neck. The photos were taken with the end of the barrel at the edge of the grid pattern and about one inch in front of and parallel to it.



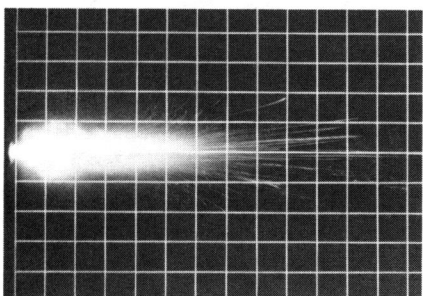
Federal 200



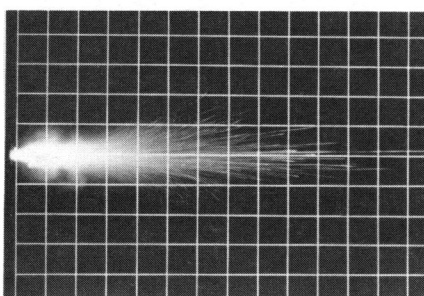
Federal 205



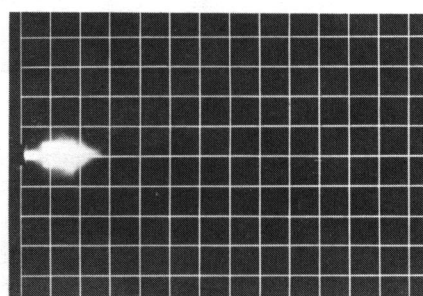
Federal 205M



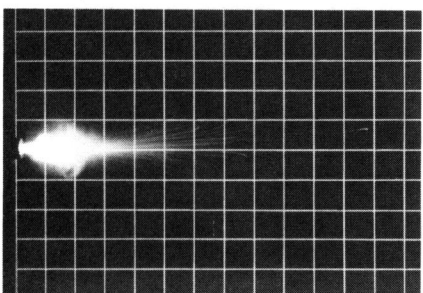
Remington 7 1/2



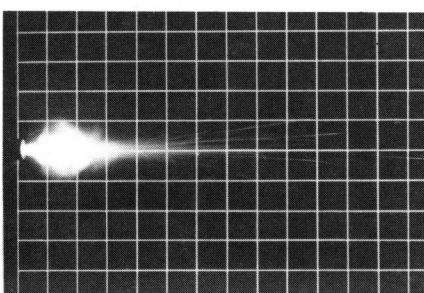
Winchester WSR



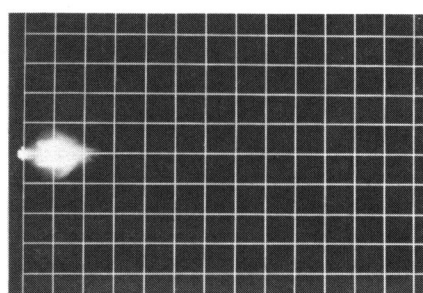
Fiocchi SR



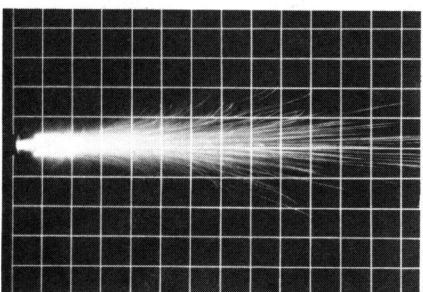
CCI 400



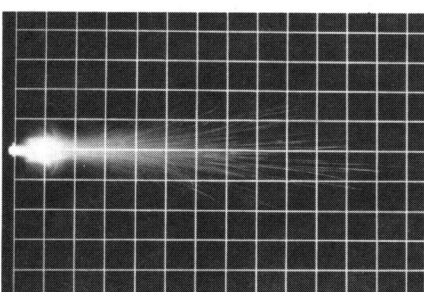
CCI 450



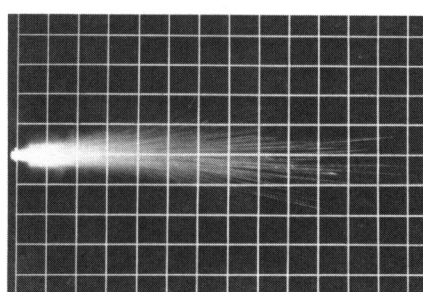
CCI BR-4



RWS 196?



RWS 1972



RWS 1981

TEST #3 Chronographed Velocity & Standard Deviation in a 6PPC

The velocity tests were conducted using the same rifle and same batch of cases for all tests. A powder charge of 26.0 grains of T-322 was used with Berger 68 gr bullets. All powder charges were consistent to within 0.1 grain. Chronographing was done on an Oehler model 33 with type III skyscreens. All primer pockets were cleaned after each shot and necks were also cleaned to insure uniform bullet seating and tension.

Tests were run in batches of 12 shots. The first 2 shots were considered foulers and are not included in the statistics. The last 10 shots of each batch were used for statistics. Several batches were fired of each primer lot with the exception of the RWS 196? primers of which only one 12 shot batch was fired due to the small quantity available for test.

Primer type	LO	HI	Spread	Average	Stan. Dev.
Federal 200	3120	3169	49	3152	16
Federal 205	3108	3172	64	3141	16
Federal 205M	3086	3134	48	3109	14
Remington 7½	3098	3164	66	3133	15
Winchester WSR	3086	3144	58	3112	18
Fiocchi SR	3108	3154	46	3125	14
CCI 400	3105	3187	82	3136	22
CCI 450	3112	3179	67	3153	19
CCI BR-4	3108	3149	41	3126	13
RWS 196?	3105	3149	44	3128	14
RWS 1972	3088	3159	71	3134	17
RWS 1981	3095	3210	115	3121	34

PRIMER TEST SUMMARY

This test was conducted as a comparison between currently available primer types. Several lots of each type were evaluated to come up with an average performance of each type tested. The exception to this was the RWS primers which were divided by date codes because of difference in performance. Whether this difference was characteristic or due to aging is not known. The three dated lots tested are the only date codes currently known to exist in the U.S.

Probably the first question to be asked after all this testing is: Are some primer lots better than other lots of a given type? The answer is yes - BUT -. The "BUT" refers to how the primers were packaged. Obviously if several thousand primers are made from one sheet of primer compound (a "LOT") and separately packaged then one has a chance of getting a large quantity of uniform primers. But, if the sheet had some dead spots (areas of poor uniformity) these may not get uniformly mixed with the others thus a single spot check may indicate a good or a bad lot when the overall case might be exactly opposite. The end result is you might get several hundred primers with good uniformity and some other 100 boxes with poor uniformity. The only way to safeguard against this occurrence is to test 10 primers from each box of 100. Testing can be accomplished by chronographing under controlled conditions and using standard deviation figures as a measure of uniformity. There still is the other variables of a loaded round to consider when making decisions based on rather small statistical samples. The

Pressure/Impact test fixture described in this test effectively eliminates these variables by measuring only the output of the primer itself. This gives a very accurate and repeatable indication of primer uniformity.

For the primer types and lots evaluated in this test the best primer types in order of uniformity were:

1. CCI BR-4
2. Federal 205M
3. Fiocchi SR
4. Remington 7½

It is extremely interesting to note that in the primer flash photographs the top three performers have a small soft flame.

An important aspect not covered in these tests is the resultant accuracy impact of primer variation. One can pick a slow rise time primer with good uniformity but that primer may or may not give good accuracy. Two other important factors come into play to make the right primer choice.

1. Intensity of the primer detonation.

Since a powder charge will burn faster the higher the pressure, one has to realize that high intensity primers will start the

powder burning at a much faster or higher rate (pressure rise time). This may improve or degrade accuracy depending on the chosen load.

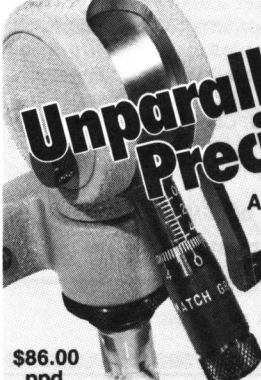
2. Bullet Jump

If the bullet is not held with enough tension by the neck for the particular primer being used the bullet will jump toward the lands from the primer detonation then momentarily slow until the burning powder pushes the bullet out of the barrel. This momentary lull in acceleration causes a very high frequency vibration to propagate through the rifle. If the shooter does not have good uniformity in bullet seating depth then this vibration becomes non-uniform shot to shot affecting accuracy. It is my opinion that firm bullet seating tension improves accuracy by minimizing the initial jump thus providing more uniform bullet acceleration and less vibration of the rifle at a critical time.

Dave, I hope this test report helps shed some light on the primer variation question everyone has been talking about.

Unfortunately it appears that there are no "Super Uniform" primers currently available just a few "good" primers and a lot of "not so good" primers.

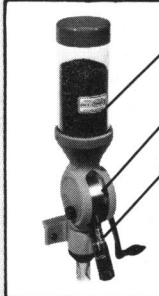
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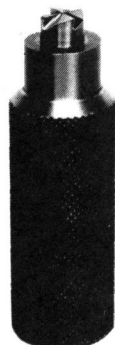
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THE 1985 MATCHES

by

Dave Brennan

(A searching article in which the editor talks about his wisdom five percent of the time, and his substantial gift of stupidity ninety five per cent of the time).

About the first of August, 1985, the editor was thinking (albeit vaguely) about some new avocation. Quilting and cross-stitch are very popular these days, Connecticut still has many legal off-track betting facilities for horseracing, and there's still a few sets of golf clubs around the house somewhere. The feelings of depression could pretty much all be traced back to the fact that the editor was shooting perfectly lousy, thank you. You name the range; the editor had disgraced himself there. Nor was he persnickety about where he spread the horse manure . . . ranges from Lake George, New York to the Permian Basin had received their fair share, and more. With the exception of a third place finish in the heavy varmint class at Fassett, the trophy case was bare, and picking up dust at an alarming rate. As soon as things would show a little promise during the course of a match, a shot would be sure to go straight up, or straight down, usually the latter. And sufficiently far . . . straight up . . . or straight down . . . to make the matter of the aggregate a moot point, in which yours truly was thereafter only vaguely interested in. Nor was this little characteristic confined to just one rifle or one scope . . . the magic was such that the uncanny ability was brought to whatever I touched. One of my friends, trying to be helpful, brought out the Harvey Donaldson quotation . . . "Them that can shoot . . . shoot. Them that can't . . . write". Although the wretch was driven off by blows and curses, the feeling that he might be right . . . persisted.

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Came the IBS Nationals at Johnstown. A range that the editor has usually shot, at least, creditably on. Light varmint, 100 yards, .3764 agg. At 200 yards, a .3891 agg. And a grand agg of .3708, good for 57th place in a field of 95. No, Virginia, they do not give out "Top 60" patches at the Nationals. Comes heavy bench class, starting off with 200 yards, and Our Hero has a .6189 agg, good for 46th place in a field of 72 shooters. In the Poplars Motel that evening, the editor attempted to smother himself with a pillow. But, like everything else tried recently, he was unsuccessful . . . and merely ended up with a lingering foul taste of feathers in his mouth . . . that even Scope would not remove.

Now, let us flash ahead. At 100 yards, heavy bench, 15th place. Heavy varmint, 100 yards, 12th place; heavy varmint, 200 yards 13th place; grand agg 11th place. Painted Post, heavy varmint, 1st at 100 meters, 2nd at 200 meters, 1st in grand agg. Midlothian, 3rd in the three gun, behind two fair local shooters named Boyer and Maretzo.

The above is recited, not to prove how wonderful the idiot editor is, but rather to establish that indeed something major had been changed. What was it? Gun? Scope? Load? Seating depth? Nope, none of these. But, sitting on the firing line at Johnstown, at the start of the 100 yard heavy bench portion . . . I noticed that I had, somehow, somewhere, changed my basic shooting position at the bench. The editor does not shoot free-recoil; rather he uses a moderate grip on the rifle. I noted, to my surprise, that I was now shooting with my shoulders perfectly parallel to the firing line and the target line. And the rifle, in recoil, was now striking me in the collarbone, and not where the upper arm and shoulder come together. I simply rotated myself forty five degrees . . . and immediately began shooting to my ability level . . . not a world beater, but a halfway decent shooter.

And I can't help but wonder . . . how many other shooters are shooting poorly . . . because of a not-realized flaw in their basic shooting technique. Not the gun, not the scope, not the load . . . but rather they themselves are doing something very basically wrong at the bench. Many will have different errors to wrestle with . . . but, if it was a poor year for you in 1985 . . . see if you are not doing something considerably

different than you used to. It just might mean a big difference in those agg figures!

Gold Medallion Bore Cleaner.

I guess that this is a two part story. And we'll skip ahead to Midlothian, Virginia, for their October match . . . the last IBS match of the year.

The editor was loading, and cleaning rifles next to his buddy, The Gonzo Dentist, Dick Maretzo. And said dentist was most certainly not shooting up to the ability that earned him the top title in benchrest in 1985. In the morning on Saturday, the light varmint class was taken with somewhere around a .235 agg figure by Dr. Davidson . . . while Richard was somewhere around the .300 area. In the afternoon, when Tony Boyer was running away with the sporter class, with a "in the teens" agg, after three groups, Richard was still firing those .300 groups. And neither was Gonzo losing a shot to conditions . . . his targets were just plain . . . big holes . . . about three tenths of an inch, every one of them. After three groups, Richard was just sitting at his loading-cleaning table, looking like a potential suicide. And I said, "Richard, that gun is just plain not shooting the way it can, or you can. I've been using Gold Medallion bore cleaner, and I'm shooting your ears off . . . and you are a lot better shooter than me. Let me clean that bore with Gold Medallion, and let's see what happens." The dentist was too weak (despair) to resist. First a

Continued on next page

LEFT THE RANGE

ROY NORMAN, of Kennewick, Washington, left for quieter ranges in September, 1985.

The Editor never met Roy Norman, but it seems like forever that I've been seeing his name in Northwest Region match reports. Added to the passing of Sam Wilson . . . the Northwest has taken a couple of real body blows in 1985.

In his letter to P.S., Bill Crosby said simply that Roy was a good man, and a tough competitor.

Not a bad epitaph . . . for Roy Norman . . . or anyone.

— WE ARE DIMINISHED —

THE 1985 MATCHES

Continued from page 27

patch wet with Shooters Choice, to get a lot of firing residue out. A bore brush, wet with Marksmans, and half a dozen passes. Dry with a couple of patches. Next, a patch, well saturated with Gold Medallion, a half a dozen strokes, about 12 inches each in length, steadily working forward from breech to muzzle, and blending the strokes so that each inch of barrel gets three or four passes. Repeat again. Now a wet patch with Shooters Choice, repeat the bore brush stage, dry thoroughly, and be very careful to get all the Gold Medallion out of the barrel and chamber. Note that this is not the technique of Ferris Pindell, the much-more-knowledgeable-than-me developer of Gold Medallion. Ferris uses a one-size-smaller-than-bore brush, with the Gold Medallion saturated patch wrapped around it, and only Gold Medallion. I do things a bit differently, and merely am explaining my way, which may be inferior to Ferris' way.

Gonzo's next group was a .207, followed by a .220. The findings were not conclusive to the good gentleman . . . but certainly interesting.

The next morning, with 100 yard heavy varmint stage coming up, Dr. Maretzo wandered through my loading area . . . and asked to borrow my bottle of Gold Medallion. With two cleaned barrels, we went to the firing line, and found perfect conditions . . . the wind flags hanging straight down, and not moving. I fired the smallest group of my life, an .064, and Richard didn't do too badly . . . with his .080. As the match went on, conditions began to pick up, and on the fourth relay, Richard lost a shot to wind, opening up his group to an even .400. On the fifth relay, after using Gold Medallion again, he recovered a bit . . . with a passing fair .056 group. Even with that horrible .400 group, he still finished with a .177 agg, with two groups in the zeros, and two groups in the ones. Take back the one shot lost to wind on the fourth relay, and the gentleman would have wiped out the IBS agg record.

As we were leaving, I asked Richard, "I have an extra bottle of Gold Medallion. Want it?" To which he replied . . . "No. I'm going to order a 55 gallon drum of the stuff as soon as I get home."

I am aware that Gold Medallion is, in some circles, somewhat controversial. Some maintain that if it is not completely cleaned out, it will harm the bore on firing. Maybe so. In that case, spend the extra couple of minutes to get it out of your bore. Just about any cleaner will harm the barrel if not cleaned out when you start shooting.

Others say that they suspect it will

shorten barrel life. I have no solid knowledge on this, and I doubt if others do either. But I do recall the great novel by Homer, "The Iliad" . . . in which the gods offered the young Achilles his choice . . . of a short, illustrious life . . . or a long, rather dull life. Achilles chose the former . . . as heroes are supposed to. Now, in your Walter Mitty dreams, which is the way you would like to be spoken of? I'll give you two choices:

1.) "Wow, Mike has been shooting that same barrel for three years now!"

or

2.) "The way Mike is shooting these days . . . he's a threat in any match he enters."

I mentioned the POSSIBILITY that, if a few are right, and Gold Medallion MIGHT shorten barrel life, to a top shooter who recently started using it. He replied "Dave, I go to matches to win them . . . not to have an endurance test of barrel life. It makes my barrels really shoot. That's what I go to matches for."

And TJ Jackson just called. He has a bore scope, and knows how to use it. TJ is, furthermore, not afraid of something new. TJ was relating that Gold Medallion "got the blankety-blank barrel . . . CLEAN." He was cursing out a particular barrel that was a real fouler . . . but which shot like crazy . . . when clean. And Gold Medallion cleaned that barrel.

Some of my best barrels foul . . . heck, I'll live with a fouling barrel . . . that SHOOTS . . . as long as I have the barrel cleaner to deal with it.

A couple of days after Midlothian, U.S. Products, the maker of Gold Medallion called. "What the heck is the story on Maretzo using Gold Medallion at Midlothian?"

"Why?"

"Because some guy who was quietly

observing the goings on . . . just called . . . and ordered a case of it."

Gold Medallion might not be for everyone. One must clean off the cleaning rod thoroughly, after each pass through the barrel. You must keep the cleaning rod straight during use. But one of the biggest advances in benchrest during the last five years has been the discovery of how tremendously important a clean bore truly is. Gold Medallion . . . for the shooter who uses it properly . . . is a worthwhile addition to the tools that we have for combatting barrel fouling. Shooters with medieval concepts, afraid to at least TRY something new . . . might well be missing the boat.

Top level shooters such as Tony Boyer, and now Dick Maretzo are using it. TJ Jackson, complete with his bore scope, thinks it's the greatest thing since bourbon. Add to that list . . . the editor . . . if only for a bit of comic relief.

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The Fundamentals Of Small Groups

by
Walt Berger

The ability to shoot small groups, and even more important, the ability to shoot small eggs, cannot be tied to any one specific item of overwhelming importance, but rather is the sum total of many parts of some importance. It is my very strong belief that at any match of any size, more than 50 percent of the rifles on the line are capable of producing groups at least as good as, and quite possibly smaller than those fired by the winner. In that case, why then do a rather small group of individuals consistently appear in the winners circle and others, with rifles of equal ability would need a road map to find the winners circle thereby showing their complete lack of involvement in times past with the pleasant task of accepting trophies at rifle matches? These consistent winners share certain common characteristics and I think that there are four principal ones:

- 1) Absolute confidence in one's gun, and related equipment.
- 2) Proper mental attitude.
- 3) Ability to recognize, and then adopt to, the prevailing range conditions.
- 4) Proper gun handling and bench technique.

This article will deal with items #3 and #4, not that I regard #1 and #2 as unimportant, but rather because I realize that others will be writing about those first two in the pages of this book. It is primarily in the last few years, with so many sports champions emphasizing the importance of the mental side of preparation for their particular sport that some in our sport sat up, and in essence said, "we've been overlooking this in benchrest shooting" some of those people who were among the first to recognize this are our perennial champions today!

With a hot shooting rifle, in good conditions, it would be nice if all we had to do was settle the rifle into the sandbags, take a deep breath, and watch little groups in the teens form routinely on the target opposite our bench. You might have noticed that things like that happen only in fairytales. You must first develop a solid, instinctive bench technique, that over a bit of practice will become second nature to you, and will allow you to repeat every step in the procedure of firing the shot the same shot after shot, group after group, and from one range to another. You will remain a stranger to the winners circle if you perfect a technique that works all right on your little one bench local gun-club range, but then are unable to bring that technique along

with you when you head for the registered match across the state line.

If you are fortunate enough to be at a championship match, take a moment to watch Fowler, Geraci, the Eubers preparatory to the "commence firing" command, or during the match. Ever see Jef Fowler looking for his loading block after his first shot or Geraci wondering where to put his empty cases or Allie or Lee Euber trying to recall which cartridges were designated for record, and which for sighters? You must develop a habit, a consistent habit of what you do with your supplementary equipment at the bench, and do not deviate from your pattern without darn good cause. You first set your rifle, rests and equipment on the bench so that they are in a position which is comfortable, and the components easy to reach. The front rest and rear bag should be placed so that they are in line with each other, and with the target, allowing the rifle to recoil in a straight line. When the rifle is placed on the bags, it should be tapped or pressed into the bags to get the fluff out of the sand. Now, with the rest, bags, and rifle positioned in a comfortable position, hopefully a position that you have adopted as yours, and one that can be used on all ranges, we can now begin to look forward to the next obvious consideration that of the shooting technique that we will use.

There are many shooting techniques to consider ranging from the tight hold with shoulder pressure pushing the front of the stock forend against a stop on the front rest to an absolutely untouched gun (other than a finder on the trigger, of course) with complete free and unrestricted recoil. I will not attempt here to build a case in favor of any one style of shooting. I have been beaten by users of every style going, except possibly those advocating the merits of shooting while standing on their head. Now that I think about it, I believe that one of those fellows has beaten me also. But I will advise this whatever method is used, you must be consistent, and do everything the same, shot after shot, group after group. It is my personal belief that there are disadvantages to each of the two extremes in style of shooting technique. Using the tight hold method, it is hard to do everything the same, especially when one is faced with the task of trying to get that last shot into that nice little four shot group with only a few seconds left. With the absolute untouched rifle (again, except trigger), it is slow and does not allow you to take ad-

vantage of conditions and matches are still won on the basis of aggregates, not an occasional small group. I believe, for myself at least, that a compromised version of the two is the best, and this is a VERY LIGHT to almost no pressure hold with your trigger finger hand in the pistol grip area. The hand should not be used to hold the rifle on the aiming point while it is being fired. Rather the left hand should be used to control the rear sandbag or else the elevation adjustment on the rear leg of the front rest. The rifle butt should be away from your shoulder, and the rifle should recoil into your shoulder. In your early attempts at this style, be careful of the scope hitting your nose. Cheek pressure should be "light to none". Your sandbags should be kept set up for your style and preference. Some shooters like a very free recoil, and these fellows use lots of powder on the sandbags; others prefer a sticky recoil, and these use just about no powder at all. I myself favor the old Ogden Nash rhyme "a bit of talcum is always walcum".

When you have many hours on the practice range behind you, as well as a lot of shots fired, you will be settling into your own determinations on how your rests and gun should be set up in the most comfortable manner, and now you can load and unload without having to look and give all our visual attention to loading cycle now you can do it by touch and feel, and this will come to be an advantage to you in matches you are watching the downrange condition changes while the tyro next to you is looking hither and yon for his cartridge block.

Many of our brethren, on arriving at a match, set up our equipment, load the ammo, and then go visit friends. It might be a good idea to try to find some friends somewhere near the firing line, so you can keep an eye on the flags for a while, and pick out the OVERALL prevailing condition. If a left to right wind is 90 percent of the time, and a right to left 10 percent of the time, you should be aware of the odds being against you if you elect to start shooting right to left. Watch the conditions how long are they hanging around for. Is it two to three minutes between changes, giving you time to get off all five record shots on one switch, or are the conditions changing several times a minute?

Once on the firing line, wait for what you believe is the prevailing condition. Once it

Continued on next page

THE FUNDAMENTALS OF SMALL GROUPS

Continued from page 29

arrives, pick out those things that you are going to watch . . . flags, grass, trees . . . fix in your mind how they react to that prevailing condition. I like to watch indicators close to the firing line, ten to fifteen yards from the bench at 100 yards and about the same for 200 yards at most ranges. When the command is given to commence fire, put a shot down there on your sighter, AFTER you noted the conditions at the time you fired the shot. Try to fix in your mind HOW FAR THAT CONDITION MOVED THAT SHOT, in comparison to a dead calm shot. If you fire another shot in that same condition, and they print together to your satisfaction, then the flags or whatever it is that you were watching seem to be telling you the truth about the particular condition . . . so you might well elect to shoot in that condition. If, on the other hand, the two shots did not print together, pick out a different wind indicator to watch, until you finally settle on one that appears to be the most reliable. I try to find the one indicator on the range that seems to affect the flight of the bullet the most, and then watch the overall range condition to be sure that, while watching the nearby flags, I have not missed noticing a complete down-range reverse. Once you have determined what it is that you are going to watch, it is now "high noon", the time to go up to your record target. Many very new shooters, in their first or second match rank this moment roughly the same as they would a request on a pirate ship that they "walk the plank". However, there's nothing like firing a few good groups in the start of your competitive career to take away forever this feeling of stage-fright.

Back to the still untouched record target. Shall we ruin its pristine unblemished beauty with a bullet hole? Yeah, let's do that! It's time to put all that practice to work. Watching your wind indicator, fire your first shot. DO NOT take your eye off the wind indicator. Keep watching it as you extract your fired case and as you load a new round.

It is easier to see a change take place this way than it is to look away, and then when you are ready to fire, wonder . . . "is that flag going in the same direction and showing the same velocity that it was when I touched off my first shot?" When you have loaded, shove the gun forward, and while watching your wind indicator with your left eye, look through your scope to see where

your shot hit. If it went where it should have, and your wind indicator indicates the same condition, then this is no time for meditation . . . immediately fire another round. Repeat the loading drill, and if the first two shots went together, and the condition is still hanging around, get another round down there. If the wind indicator showed a little pick-up, and your last shot moved with it . . . no more than half a bullet hole, and now that slight pick up is consistent, then hold off that much, and shoot. Unless you get into a dual condition and time problem, I think that a quarter inch hold off at 100 yards is the most that you should hold for. I would prefer to wait for the condition to come back. If it does not come back, go to the sighter target and see where that condition is causing the bullet to impact, and then hold accordingly. When you have absolute confidence in your gun and equipment, it is much easier on your nerves to hold off the amount that your last shot indicated you should. This procedure works equally well at 200 yards, but at this longer distance you might have to hold off up to an inch or an inch and a half. This is basic advice, primarily for the new shooter, or for the more experienced shooter who is in a real slump, and who has to go back to basics to try to figure out what he has suddenly started doing wrong. I don't pretend that this information will help you when the wind, at impressive velocities already at Kelbly's Ohio range, at the 200 yard stage, suddenly does a complete reversal, and you've got fifteen seconds left to get off your final two record shots. At the 1982 Supershoot, when exactly that situation occurred, I heard one very well known shooter come back to the loading area, and tell his friend, "well, I held the group together, but in that reverse, running out of time, I was holding completely off the paper for the last two shots". My hat is off to you fellow, if you had done that on national television, people would have talked about it for days!

I have found that if I follow the above basic rules, I will finish most matches closer to the front than to the rear. I don't think that you, I, or anyone else will win matches without having the proper mental attitude, and this is a condition that can be changed and influenced by many outside happenings. Only you, as a shooter, will know if you are mentally ready or not. I know that I have participated in many matches when my equipment was ready, but for various reasons I was not ready to be a good tough competitor that day. I mention this so that you do not continue to change shooting techniques when that is not the real problem.

Let's take a look at a few individual situations, and see if we can point out the

sort of situations that you should be picking up, with a bit of experience behind you.

The first is George Kelbly's great range in Ohio. When it was first built, and before that big loading building was erected, I could use the above described procedures with relatively good success. Since that big ark of a building has gone up, I have had to change where to watch, from close to the firing line, to out as far as 75 yards, and I still do not shoot here as well as I used to, because I have not adopted to a major change in the range topography as well as I should have.

The Knoxville range requires a little different watching on bench number 50, where you have a road and an earthen bunker next to the 100 yard targets, as opposed to bench 1, that is next to a row of trees. Two entirely different kettles of fish!

There is a range at Visalia, California that sits on an open area, but for safety reasons, the range has been recessed into the ground with an earthen wall on two sides and the far end. Needless to say, conditions are not real violent there. But with the wind coming in and over the sides of the range, many strange things can happen, and what is happening at your bench may well be completely different than what is happening to your perplexed neighbor a few benches away from you.

The St. Louis range at one time (it may still have them) had some mounds of dirt that you had to shoot over. That, in my mind, would give vertical dispersement if the conditions were not watched real closely in the area of these mounds. (Editor: we'll have to get you up to the Painted Post Range . . . to study what mounds can do to a group, Walt).

I could continue on about ranges all over this great country of ours, but the important thing to remember is this: Get the basic fundamentals "down", and apply them to the physical characteristics that surround the particular range that you are shooting on, or abnormal weather conditions that may be prevailing at the time you sit down at the bench.

The above is just a very small portion of the basic knowledge that is needed to shoot small groups, but it has helped me a great deal over the years to achieve a limited amount of success. I hope that in some small way it will help you also.

I think it laudable that shooters should aspire to improving their performance, want to do better, want to win. Eventually I believe that you will discover that winning matches becomes less important to you, but that phase of your evolution as a shooter and a person will come later . . . first we've got to get you to the winning stage of your life. Good luck getting there!

DICK THOMAS (PREMIER RETICLES)

Dear Dave;

Thanks for your short note on "nothing much". As a matter of fact I was thinking of contacting you on the latest in target scopes.

As of this date a rework, retro-fit, refurbish, restoration, conversion or whatever else you might want to call it is being offered to owners of 36X Leupold scopes that involves installing the PREMIER focus and parallax adjustment like you have on your 20X-48X 57mm scope. The purpose is to improve the Leupold set-up that moves a large objective lens for focus and parallax correction. The objective lens, cell and calibrated ring are all epoxied in place and eliminates any chance of the objective assembly moving and causing possible shifts in point of impact or focus changes. Instead a very small lens is moved to adjust the focus and parallax. The new adjustment has a vernier scale and will focus from about 50 yards to infinity and has a friction fit so it is not necessary to lock after adjusting.

Stan Bucktel and Red Cornelison have these latest conversions. T.J. Jackson has an early prototype. Stan has had his scope since mid September and Red's went out this week. Don't know yet what results have been obtained. T.J.'s would shift point of impact only when parallax was adjusted just like the Lyman scopes. After a redesign this problem has been eliminated. It is also worth noting a secondary advantage of the rework is that click value of the target knobs equal .134 moa (about 1/8 moa). Click value before rework is about 1/4 moa. Weight of the scope is 1 1/2 oz. heavier after rework. Resolution of the scope after rework is exactly the same as it was before the rework.

Another option available will be a 36X

boosted to 40X with the same PREMIER focus and parallax adjustment. Click value of knobs after rework is exactly .125 moa (1/8 moa). Scope weight is 1 1/2 oz. heavier and about 1/4 inch longer than the stock 36X.

Early model or late model 36X scopes can be reworked. Cost for 36X is \$135 and \$170 for 40X. Price includes return UPS shipping. The reticle that is installed in the scope will be saved and reinstalled after rework. Any reticle change to another style or size will be extra cost.

The 20X-48X 57mm scope that was offered the first of this year is being discontinued because of the various manufacturing difficulties and lack of high resolution at the upper magnification. At one time in the last 60 days I had all but given up on a variable power scope having a bench rest application but still hear that some shooters can still see the advantages of a variable if mirage is a problem. It has been extremely difficult to re-educate individuals why a reticle placed in front of the zoom lenses will eliminate any chance of a shift in point of impact during a power change. This location is referred to as the first focal (image) plane. Harold R. Broughton has been gracious enough to test my latest brainstorm variable.

This variable will be a converted 6.5X-20X Leupold that will be about 18X-40X or possibly 44X on the top end. It will have the PREMIER focus and parallax adjustment and the standard Leupold 40mm objective lens epoxied in place the same as the 36X and 40X fixed power reworks. Reticle will be a fine crosshair in the first focal plane. Click value of target knobs will be 1/8 moa. Resolution of this scope with the smaller Leupold objective will be excellent. I'll keep in touch on test results. This same 18X-40X scope without the new focus and parallax adjustment has been

used since June by silhouette shooters. The small-bore silhouette nationals were won this year in Ft. Worth using this converted Leupold.

Finally, I hope to offer a click adjustment conversion to Leupold 6X AO compact scopes. New hunting style adjustments (these are adjusted with a coin, are low profile and have dust covers) with 1/6 moa (.156 moa) clicks can be installed on these Leupold scopes only. Adjustments are made by Leupold. Hope to get the first shipment before the first of the year. Sorry, but click values cannot be changed on Weaver or Lyman scopes.

An ad will be placed in *PRECISION SHOOTING* around the first of the year listing the above and other services available from PREMIER RETICLES. Ad may include new Leupold scopes with fine crosshairs or dots and new scopes with the PREMIER focus and parallax adjustments. Of course reticle changes will also be offered.

Had a chance to talk with Earl Chronister about the up coming 1000 yard Super Shoot last night. Earl said you might be there signing autographs. Don't know for sure if I'll make it . . . don't think Pennsylvania is ready for two sex symbols of our caliber at one time!



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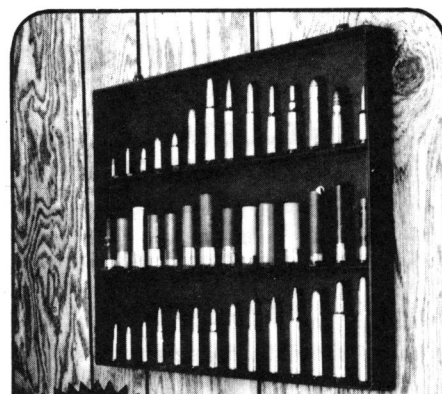
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COLLECTOR'S ITEMS: I have six new Masker-Saeco measures, just made up. Six Saeco measures were found in a warehouse. \$199 plus \$5 shipping. Seely Masker. (These with stand and quick detachable unit.)

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IBS News

Edited by Dave Brennan

SOMETHING NEW OR (Guinea pigs of the world . . . unite)

by
Dave Brennan

Scene #1) The Editor was sitting in on a Saturday night gab-fest at one of the Eastern matches this past summer. At a most unusual pause in the conversation (it has never ceased to amaze me that some individuals can talk for five hours straight at such discussions, even occasionally waving their arms, pounding the table, or wiggling their ears for emphasis), the Editor got a word-in-edgewise to a nearby shooter who was frantically signalling the waitress for another beer. "Say, ----, I know you have an older rifle or two. How come you've never entered the Old timer division of the Donaldson match?"

"Well, Dave to tell the truth . . . I just plain feel it's too much work to get a rifle shooting well, for a one group match once a year". (More frantic arm-waving for the waitress).

While the Editor was digesting that little piece of philosophy, another attendee felt compelled to offer his two cents worth. "You know, a lot of us don't have old-timer rifles. But just about all of us have honest-to-gosh varmint rifles. They ought to have a varmint rifle division". Then he also started waving for the waitress (whom we later found out was blind as the proverbial bat). End of scene #1).

Scene #2) A match at an un-named IBS range toward the end of the 1985 match season. There was a bit of time available between relays, and the Editor . . . perhaps unwisely . . . mentioned to a few shooters . . . what if we were to introduce a true varmint rifle match . . . wooden stocks, no custom actions, no sleeved actions . . . at Johnstown? Just about every benchrest shooter owns one or more varmint rifles. Would you be interested?" The first thought I got in return was one I had heard before . . . who wants to go to all the trouble of setting up a rifle for a one group match, once a year? Everyone pretty much agreed on that. Then the argument started. Half the group held out for the ideas advanced on page #3 of the

September issue by Murray Benson, of Canada . . . factory action and barrel, no 40xs, the man-in-the-street approach . . . "only way to keep it from becoming another exotic rifle usual to the benchresters, that scares off the possible new shooter, who feels that he can't compete with the benchrest pros". Then the other school of thought became agitated. "Wait a minute; most of the shooters will be the benchresters themselves. Do you think, for one minute, that the guy is roaming around to benchrest matches, with a battery of \$1200 rifles . . . and he's got a factory varmint rifle? No way! He's got a custom barrel, a 40x action, and not some piece of factory junk from off the wall at the local gun shop!" Then the argument really got going. The factory barrel advocates held that their way of doing things was the best way to entice the new shooter. Heck, the range could even put up posters at a few local gun shops saying that maybe the locals wouldn't want to shoot against benchrest rifles, but how about varmint rifles with factory barrels? Might bring some new shooters into the sport, if talked up a bit locally. The other school of thought considered this weighty rationale for a couple of seconds, and came back with a rebuttal that the benchrest shooters, who CERTAINLY would be at the match, came ahead of a few local yahoos who MIGHT be at the match, and who probably wouldn't show up at all if past history was any indication. Then the argument heated up. Remember the scene, in the early Tarzan films; the family of great apes having a family argument? They would tear up trees and flail away at the ground with them . . . then they would beat on their chests, and commence to bellow, loudly? The argument was starting to look like a great apes scene, when (thank heavens) the rangemaster called us all to the firing line. I think that it prevented bloodshed . . . in fact, I'm certain that it did.

Scene #3) The Editor wrote to about ten

shooters . . . what do you think of the idea? Strangely, the replies tracked with scenes #1 and #2 above. Although it is hard to do a great apes scene by letter, a few came close. One shooter called, instead of wrote, and he did a real good Great Ape impersonation. The Editor put down the phone, and went straight to bed. It seemed like a good place to hide . . . and think more about the idea . . . which certainly had folks both interested and agitated. I got up briefly, to take the phone off the hook, and went back to bed. (Next day, when Seely called, he asked "who was the long-winded blankety-blank that you were talking to last night? I called you for hours).

Scene #4) The Editor contacted the IBS president, Jim Borden, and explained the idea background. Discussion ensued. Letters were exchanged. More phone calls back and forth. More letters. Eventually . . . from the chaos . . . from the bedlam . . . would you believe that a workable idea emerged? Truly, the mountain had labored . . . and brought forth a mouse. But the mouse was scampering about. And looking quite healthy. At least the darn thing was not stillborn.

AND NOW TO FILL YOU IN ON THE DETAILS THAT YOU HAVE BEEN BREATHLESSLY AWAITING (well, more or less).

#1) The proposed one group match will be held at the FIVE "designated" IBS matches in the "Benchrest Shooter of the Year" circuit. Although not 100% resolved at present, the Editor and the IBS president are pretty much agreed on: Dunhams Bay, Midlothian, Council Cup, Weikert, and the IBS Championships; if Council Cup were to be awarded the Championships, then the 200-300 yard "long-distance championships" would go into the schedule in

Continued on next page

SOMETHING NEW

Continued from page 33

place of Council Cup. We envision this fun match being held on Saturday afternoon, at the end of the days firing, before the target frames get moved out to 200 yards. There will be a \$3.00 entry fee, with 100% of fees going to the host club. Precision Shooting magazine will sponsor a trophy for the winner in each of the two classes at all five tournaments.

#2) It is completely a fun match. If you don't like the idea, skip it. There is no pressure on anyone to enter. Indeed, the mere act of entering will keep the entrants

from having a cold beer as soon as the match is over . . . a very serious drawback, I am aware. Conversely, if the club decides that they wish no truck with such nonsense, entirely their right. In which case, P.S. will have to award the "designated tournament" to some other club.

#3) Since there are two distinct schools of thought on how we ought to set up the entry level requirements, the Editor . . . a devout coward from way back . . . has set up BOTH CLASSES. Who says the spirit of Solomon is dead? Jim and I agreed that the classes should have gaudy names, to look good on the trophy on your shelf.

#4) Here are the specifics on the two classes:

EXPERT — Eleven pound weight limit. Must be factory barrel and action, no sleeves. Shilen and Wichita actions not permitted. No single shot bolt actions, such as the 40x, no custom actions. Must have workable magazine. Re-stocking permitted, but must be wood stock, no fiberglass stocks. Any scope, any trigger. Rechambering permitted, but must be factory cartridge, no wildcats.

MASTER — Thirteen and a half pound weight limit. No custom actions, no sleeves. Re-barreling is permitted. Factory actions only (no Shilen or Wichita), but 40x and XP-100 type actions permitted, and other actions may have magazine opening filled. No PPC chambers, or wildcats on PPC brass (in either class). Restocking is permitted, but stock must be wood, no fiberglass stocks. Any scope, any trigger. Wildcats allowed in this class.

#5) That's it, gang. They will be fun matches, in the tradition of the Donaldson match, and the Powder Puff match. If the club wants to put up a few posters at the local gun shops, we may well get some of the local shooters to show up. Personally, I think it could be a lot of fun, and we are all agreed that fun is something that we want to keep in the sport. We are trying this in the IBS world first, because things are relatively close together there, and I do recognize the logic behind the sentiment "who wants to go to a lot of trouble for one match?". There will be five matches to mess around in . . . so to speak. When the PPC, fiberglass stocks, and short scopes came into the game, they took away one of the great pleasures in shooting . . . lying in bed at night . . . SCHEMING. Gentlemen, we have given you six months to scheme. What are YOU going to shoot? Almost all of us have a very accurate rifle, that just needs a bit of tuning to be real accurate. The practice of thinking . . . scheming, actually . . . has returned to our midst. Don't just sit there . . . scheme! Surely there's a place in this contest for that rifle of yours . . . the

third one in the gun rack. The possibilities are just about without number.

#6) At the end of the five matches (we'll give three points for each first place, two points for second place, one point for third), P.S. will give a season trophy for each class.

And, as we said before . . . if you don't like the idea, no problem . . . skip it. But virtually every shooter I spoke to, in the formative stages of this idea, started planning what rifle they would use . . . immediately. But let's not forget to have fun, huh?

DUNHAM'S BAY

The Bay held its annual Memorial Shoot on September 22nd, with over \$500.00 going to various charities. A count showed 31 heavy varmint class shooters on line, and 8 hunter guns.

Overheard conversation just before the start of the match . . . "You know, it's a shame that Myles Hollister hasn't done well in a long time up here. I mean, just about the nicest guy that any of us know. Darn it, I hate to see Myles do poorly. He's really a good shot". "Yea, I know what you are saying. Still, in good times and bad, Myles just keeps smiling, and helping everyone. I almost feel bad beating him". "Well, maybe next year Myles will snap back". "Let's hope so".

Dateline: Dunhams Bay, September 22nd. There were 31 shooters on line, including several former National Champions, The Benchrest Shooter of the Year, and at least a dozen of the shooters . . . maybe more . . . were capable of winning any match, anywhere . . . on a given day. Myles Hollister blew everyone's doors off, with a .2342 100 meter agg. And then looked dumbfounded when told he won the whole kit and kaboodle. It was a fitting end to the Bay's season . . . that their most loved shooter . . . won the match that means the most to the Bay gang. An ending, a finish . . . worthy of a few tears. Well, maybe a sniffle, at least.

Trailing the Hollister's bandwagon were: 2.) Carl Menard .2410, 3.) Joe Parker .2506, 4.) Ed Goff .2546, 5.) Ed Hoard .2594, 6.) Dave Brennan .2746, 7.) John Alapi .2804, 8.) Charlie Fontaine .2866, 9.) Dick Maretzo .2954, 10.) Norm Mansfield .3006. Small group went to Joe Parker, for a .100 that just missed official screamer ranking.

In the hunter class, rankings were: 1.) Ira Farnsworth 248-10x, 2.) Gregg Rennie 247-7x, 3.) Tom Svack 246-4x, 4.) Fran Vahle 245-12x, 5.) Scott Hahn 242-7x, 6.) Joe Golba 233-7x, 7.) Rita Hahn 230-2x, 8.) William Hoffman 211-4x.



INTERNATIONAL
BENCHREST SHOOTERS

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YORK

Must have been pretty decent shooting conditions at York, Pa. on September 22nd. At the hunter class match that day, in all three classes, 250 scores were as common as fleas on an old yeller hound dog. (Like that analogy? I picked it up in Midland this year).

Varmint-hunter (6 shooters): 1.) Richard Pryor 250-14x, 2.) Linda Hammonds 250-10x, 3.) Lou Ressler 249-11x. Agg winner Richard Pryor, of Thurmont, Maryland shot a 6 PPC, Remington action, Hart barrel, Leupold 6x scope, 27.0 grains of T 322 with 68 grain Rubright bullets and Federal primers, in a rifle smithed by himself.

Hunter class (4 shooters): 1.) Vince Pastorella 250-10x, 2.) J.F. Reisinger 248-10x, 3.) K.L. Miller 238-6x. Agg winner Vince Pastorella, of Milnesville, Pa. fired a .308, Hart action (I doubt it), Hart barrel, Weaver 6x scope, 41.0 grains of H 4895 with his own 168 grain bullets, and Federal primers . . . in a rifle not crafted by human hands (well, there's no gunsmith listed, anyway).

Varmint for score (8 shooters): 1.) Ben Druck 250-19x, 2.) Bill Bailey 250-17x, 3.) Clarence Hammonds 250-16x, 4.) John Mason 250-13x, 5.) Paul Olewine 250-12x. Agg winner Ben Druck, of York, Pa. fired a 6 PPC, Meyer action, Hart barrel, Leupold 36x scope, 29.5 grains of N 201 with 68 grain Bruno bullets and Federal primers, with gunsmithing by Clarence Hammonds.

FACTORYVILLE

The Factoryville hosted a well attended (35 shooters) match for the three hunter classes on August 25th. There was a light rain falling, which often makes for really good shooting conditions, and several of the locals took advantage of it to rack up some good scores.

In the hunter class, with 13 shooters, Al Kogoy, of Ashley, Pennsylvania managed to stay a step ahead of the field, with a 249-10x score. The supporting cast were: 2.) Chuck Loeb sack 248-10x, 3.) Vince Pastorella 247-11x, 4.) Guy Green 247-9x, 5.) Roger Gower 246-12x, 6.) Dennis Collins 246-8x. Agg winner Al Kogoy fired a 6x45, Remington 700 action, Hart barrel, Zeiss 6x scope, 34.0 grains of 4895 with Rubright 68 grain bullets, in a rifle smithed and stocked by Ed Longo.

In the varmint-hunter class (6 shooters), K.L. Miller, of Jacobus, Pa. got a nose ahead of his little playmates, via a 250-10x. Those trailing include: 2.) Joe Harvey 249-10x, 3.) Terry Wagner 249-7x, 4.)

Frank Coviello 247-10x. K.L. Miller fired a 6 PPC, Remington action, Hart barrel, Weaver 6x scope, 27.6 grains of H 322 with 70 grain Custom bullets, in a rifle from an unspecified gunsmith.

In the popular varmint-for-score category (16 shooters), Floyd Stohner, of Ninevah, New York, wood-stock-and-all, and with a nice x-count, took that class win, with a 250-22x score. Behind Mr. Stohner were: 2.) Jim Oliver 250-19x, 3.) Dave Vogel 250-19x, 4.) Jim Borden 250-18x, 5.) Walt Malinski 250-15x, 6.) Paul Olewine 250-15x. The good Mr. Stohner fired a 6 PPC, Shilen DGA action, Hart barrel, Leupold 36x scope, 27.8 grains of H 322 with 65 grain Brawand bullets, in a rifle smithed and stocked by himself.

The three Factoryville matches this year had season aggregate prizes. The varmint for score aggregate was won by Jim Borden, with a most imposing 750-48x figure. Jim was trailed by John Borden 748-34x, and Paul Ryan 747-45x. Hunter class season aggregate honors went to Dennis Collins 744-31x, 2.) Guy Green 743-28x, 3.) Al Kogoy 726-21x. And hunter varmint awards went to 1.) Joe Harvey 737-25x, and Randall Fritz 730-18x.

The Factoryville club has been fighting a courageous, and expensive fight against a noise abatement lawsuit brought by one neighbor. All IBS clubs should keep an eye on developments here, as it may well end up as a precedent setting case for Pennsylvania. Interested parties may contact Roger Rutkowski, 5 Clearview Street, Peckville, Pa. 18452, phone (717) 383-1467. There just are not that many ranges available today, and the loss of Factoryville would be a real body-blow.

SULPHUR SPRINGS

The Sulphur Springs gang hosted a hunter class match on September 1st.

Hunter class (9 shooters): 1.) Roger Gower 249-12x, 2.) Guy Green 248-13x, 3.) Vince Pastorella 247-8x, 4.) Tony Hopkins 245-9x, 5.) Stan Starzinski 244-6x. Agg winner Roger Gower fired a 6x44, Remington action, with some sort of a barrel (we presume), Weaver scope, 34.0 grains of H 322 with Rubright bullets, and Remington primers.

Varmint hunter class (4 shooters): 1.) James Zeyn 247-7x, 2.) Randall Fritz 247-6x, 3.) Bill Creasy 245-9x. Agg winner Jim Zeyn shot a 6x47, Remington 600 action, Hart barrel, Lyman scope, 29.0 grains of 748 with 70 grain Custom bullets, and Federal 205 primers.

Heavy varmint for score (11 shooters): 1.) Paul Olewine 250-10x, 2.) Ron Gosciminski 250-15x, 3.) Agnes Sabo 250-15x, 4.)

Roger Rutkowski 249-14x, 5.) Bill Gebhardt 249-13x. Agg winner Paul Olewine shot a 6 PPC, Hart action, Hart barrel, Leupold scope, his own 70 grain bullets with 28.0 grains of 322, and Federal 205 primers.

President's Message

Dear Shooters,

The winter meeting, scheduled for January 10th and 11th at the Shadowbrook Resort, Tunkhannock, Pa. is drawing rapidly closer. I urge members to attend, if at all possible. It is your organization, and you do have a voice and a vote on the several agenda items. Friday and Saturday evening bull sessions are a part of the winter meeting tradition, and few retire to rest those evenings without several hours of discourse on the subject of accuracy. Those of our members who make an accuracy product, bring a few along for show-and-tell; many of the attendees (you will be pleased to see) bring their check books with them to the meeting.

For those unable to attend, you may give your written proxy to a club director or IBS officer. On the opposite page is a blank proxy form. Sign it, and give it to your chosen representative before the meeting date.

Also on the opposite page is a form to be filled out and mailed to me on the subject of the Saturday noon buffet. If you are planning to take advantage of the attractive buffet price, I would appreciate it if you would do me the courtesy of completing the form, and mailing it to me at this address: R.D. #1, Box 244A, Tunkhannock, Pa. 18657.

Finally, I would like to thank personally all those who worked to advance our sport in 1985. The IBS officers, club directors, and those who worked so hard to hold our matches. The past year was a good year for the IBS, and it would appear that we can go into 1986 with a spirit of optimism. I thank you for your support during 1985. If, during 1986, each member would sincerely try to bring one new member into IBS, it would greatly help the benchrest game.

I wish to all our members, and their families, a happy holiday season, and a good 1986 for all.

Jim Borden

ERRATA

Glenn Newick will be a silver level inductee in the Precision Rifleman awards at the upcoming winter meeting.

1986 I.B.S. VARMINT MATCH SCHEDULE

January 5 — DUNHAMS BAY: HV - 100 meters
- 11 a.m.

January 19 — DUNHAMS BAY: HV - 100 meters
- 11 a.m.

February 2 — DUNHAMS BAY: HV - 100 meters
- 11 a.m.

February 16 — DUNHAMS BAY: HV - 100
meters - 11 a.m.

March 2 — DUNHAMS BAY: HV - 100 meters
- 11 a.m.

March 16 — DUNHAMS BAY: HV - 100 meters
- 11 a.m.

April 6 — DUNHAMS BAY: HV - 100 meters
- 11 a.m.

April 20 — DUNHAMS BAY: HV - 100 meters
- 11 a.m.

May 4 — DUNHAMS BAY: HV - 100 meters
- 11 a.m.

May 3-4 — NAMAKA BENCHREST SHOOT-
ERS, Calgary, Canada: Sptr, LV, HV, 5 shot
Heavy Bench - 200 yards Saturday - 100
yards Sunday.

May 23-24 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: Sptr, LV, HV,
10 shot Heavy Bench - 100 yards Friday - 200
yards Saturday.

June 21-22 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: Sptr, LV, HV,
10 shot Heavy Bench - 200 yards Saturday
- 100 yards Sunday.

July 18-19 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: Sptr, LV, HV,
10 shot Heavy Bench - 100 yards Friday - 200
yards Saturday, Night Shoot - Starting Time
9 p.m..

Aug. 15-16 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: Sptr, LV, HV,
5 shot Heavy Bench - 100 yards Friday - 200
yards Saturday.

Sept. 13-14 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: LV, HV, - 200
yards Saturday - 100 yards Sunday.

Oct. 4-5 — NAMAKA BENCHREST SHOOT-
ERS, Calgary, Canada: Sptr, LV, HV, 5 shot
Heavy Bench - 200 yards Saturday - 100
yards Sunday.

1986 I.B.S. HUNTER MATCH SCHEDULE

January 5 — DUNHAMS BAY: H - 100 yards
- 11 a.m.

January 19 — DUNHAMS BAY: H - 100 yards
- 11 a.m.

February 2 — DUNHAMS BAY: H - 100 yards
- 11 a.m.

February 16 — DUNHAMS BAY: H - 100 yards
- 11 a.m.

March 12 — DUNHAMS BAY: H - 100 yards
- 11 a.m.

March 16 — DUNHAMS BAY: H - 100 yards
- 11 a.m.

April 6 — DUNHAMS BAY: H - 100 yards
- 11 a.m.

April 20 — DUNHAMS BAY: H - 100 yards
- 11 a.m.

May 4 — DUNHAMS BAY: H - 100 yards
- 11 a.m.

May 3-4 — NAMAKA BENCHREST SHOOT-
ERS, Calgary, Canada: H, VH - 200 yards
Saturday - 100 yards Sunday.

May 23-24 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: H, VH - 100
yards Friday - 200 yards Saturday.

June 21-22 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: H, VH - 200
yards Saturday - 100 yards Sunday.

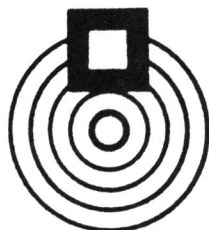
July 18-19 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: H, VH - 100
yards Friday - 200 yards Saturday. Night
shoot, starting time 9 p.m.

Aug. 15-16 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: H, VH - 100
yards Friday - 200 yards Saturday.

Sept. 13-14 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada: H, VH - 100
yards only, Saturday p.m.

Oct. 4-5 — NAMAKA BENCHREST SHOOT-
ERS, Calgary, Canada: H, VH - 200 yards
Saturday - 100 yards Sunday.

Oct 18-19 — NAMAKA BENCHREST
SHOOTERS, Calgary, Canada - H (score),
VH (score), H (group), VH (group) - 200 yards
Saturday - 100 yards Sunday.



For IBS use ONLY

MEMBER'S PROXY

I hereby give my proxy to _____
(club director or IBS officer) in order to vote in my place
at the IBS Annual Convention cited below.

Secretary Verification

Date of Convention

Member's Signature

Member Number

Renewal Date

In order to adequately plan for waitresses and food preparation, the Shadowbrook has asked for a head count for the Saturday luncheon at the Winter Meeting. It would be appreciated if all who plan to attend would return this form to Jim Borden, R.D. #1, Tunkahnock, Pa. 18657.

- _____ I plan to attend the Winter Meeting.
- _____ Number in my party that will partake of the Saturday luncheon.

NOTE: A photocopy of the above will be acceptable for those who do not wish to mutilate their magazine.

IBS ITEMS FOR SALE

The following items are available from the IBS. Those interested in purchasing any of these items should contact Evelyn Richards, 411 N. Wilbur Ave., Sayre, Pa. 18843. Please enclose sufficient funds to cover the cost of shipping.

Targets:

100 yd. benchrest (box of 500)	\$30.00
200 yd. benchrest (box of 500)	\$30.00
300 yd. red benchrest (box of 250)	\$30.00
100 yd. hunter (box of 250)	\$19.00
200 yd. hunter (box of 250)	\$20.00
300 yd. red hunter (box of 250)	\$30.00
IBS clubs receive a 10% discount.	

IBS Items:

Style #1-decal outside appl.	\$.50
Style #2-decal inside window appl.	\$.50
IBS Membership patch 5" diameter	\$ 3.00
Available early 1986-IBS Belt Buckle (Nickel finish)	\$10.50

1986 IBS AFFILIATED CLUBS

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B.B.R.S.A.

Neil Jones
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England

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P. O. Box 315
Lawrenceville, Va. 23868

CAMILLUS SPORTSMEN CLUB

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Syracuse, NY 13202

CAPITOL CITY R & P CLUB

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17 Forest Ave.
Augusta, Maine 04334

CBRSA

Jon Murdoch
33 Goldwich Crescent
London, Ontario,
Canada N5V 2K9

CENTRAL JERSEY R & P CLUB

Geza Nagy
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Highland Park, NJ 08904

COUNCIL CUP RIFLE RANGE

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Nescopeck, PA 18635

DBRV

Peter Hammerich
Heimstttenstr-30
8000 Munchen 40 West Germany

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Hudson Falls, NY 12839

E.B.S.A.

Michael Toth
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Cateret, NJ 07008

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Peckville, PA 18452

HOLMESBURG FISH AND GAME

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Philadelphia, PA 19124

IBS-FRANCE

George Cunningham
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92120 Montrouge, France

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Milt Cook
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Charlestown, W. Va. 25414

KELBLY'S RIFLE RANGE

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North Lawrence, Ohio 44666

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Panania, NSW 2213 Australia

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UNION COUNTY SPORTSMEN

Nate Boop
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Mifflinburg, PA 17844

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T. D. Glazener
Rt 5, 300 Manakin Rd.
Midlothian, VA. 23113

YORK IWLA

Robert Linn
73 Jolo Way
York, PA 17403

INTERNATIONAL BENCHREST SHOOTERS APPLICATION

Name
Address
City State Zip

IBS MEMBERSHIP

- () IBS membership and PS for one year — \$20.00
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() Junior member (no magazine) under age 16 — \$4.00
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For membership make checks payable to IBS.

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IBS Annual MEMBERSHIP MEETING

January 10 & 11, 1986

SHADOWBROOK RESORT
TUNKHANNOCK, PENNA.

AGENDA:

Friday Evening - January 10

Social time in Room 201

Soda, beer, vegetable tray, chips,
drinks & good conversation
8:00 PM until ????

Saturday - January 11

Membership and Board of
Directors Meetings

8:00 AM until 7:00 PM (reserved time)

Open Membership Meeting

Introductory Remarks

Committee Reports

Special Announcements

Financial Report

Old Business

Approval or rejection of temporary
rule changes used in 1985

New Business

Approval or rejection of items sub-
mitted as temporary rule change for
1986 (See list with this announce-
ment)

Adjourn Membership Meeting

Open Board of Directors Meeting

Ratify action taken in Membership
Meeting

Set Championship Schedule and Lo-
cations for 1986

Adjourn

Informal Social Time

Breaks will be taken in the morning and
afternoon — coffee, soda and danishes will
be provided.

A buffet lunch will be available at a cost of
\$6.00 per person. The menu will be: cold meat
tray, clam chowder, potato or macaroni
salad, cole slaw, 3 bean salad, pickled
vegetable, garnishes, rolls and rye bread,
cake or ice cream, and coffee or tea.

20 rooms have been saved for IBS attendees
to reserve through December 1, 1985.
Reservations can still be made after De-
cember 1, but rooms will not be held spec-
ifically for us after that time.

Room Rates:

Single Occupancy -

\$32.00 Regular room/\$40.00 Queen Studio

Double Occupancy -

\$40.00 Regular room/\$50.00 Queen Studio

The Shadowbrook has a raquetball facility,
Nautilus room, sauna, bowling alley, dairy
bar, dance floor with disco lighting and a
restaurant for guest enjoyment

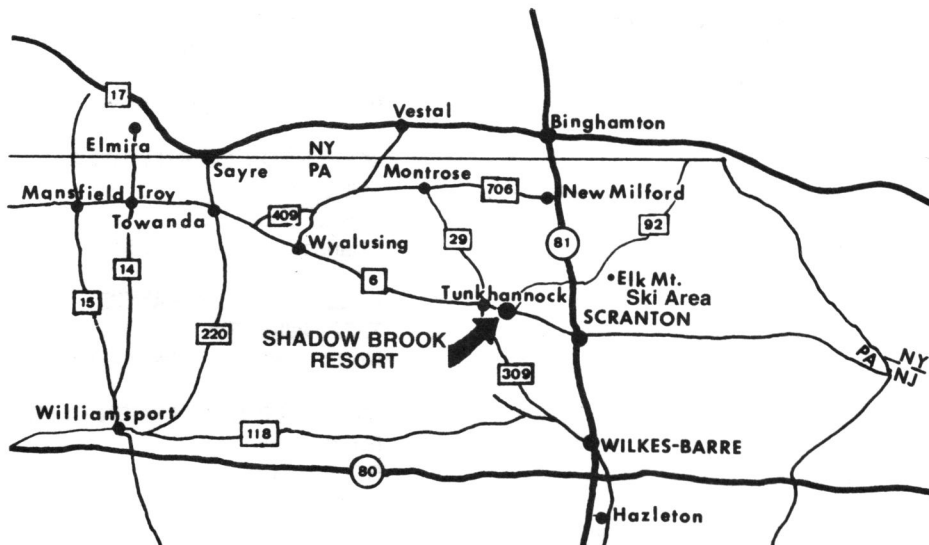
Other Motels in the area include:

Maplehurst (11 miles) 717-833-2121

Nichols Village (15 miles) 717-587-1135

Skyline (8 miles) 717-836-3145

Budget Inn (15 miles) 717-586-9100



1985 AGENDA ITEMS

The following items are proposed rule
changes that IBS members have submitted
for consideration at the 1985 Annual
Membership meeting to be held in January
1986:

1. Ratify temporary rule changes made at
the 1984 annual meeting.
2. Proposed rule changes effecting the
IBS 100/200 Yard/Meter Champion-
ships
 - a) Change the IBS Championships to
have a 2-Gun, 3-Gun, and 4-Gun
Champion. 2-Gun would be LV/SP.
3-Gun would be LV/SP/HV. 4-Gun
would be LV/SP/HV/HB
 - 1) run the 4-Gun Monday through
Saturday
HB 100 on Monday
HB 200 on Tuesday
LV/SP 100 on Wednesday
LV/SP 200 on Thursday
HV 100 on Friday
HV 200 on Saturday
or
 - 2) run the 4-Gun Wednesday
through Sunday
HB100&200 on Wednesday
LV/SP 100 on Thursday
LV/SP 200 on Friday
HV 100 on Saturday
HV 200 on Sunday
 - b) Keep the existing 2-Gun and Three
Gun but run the Sporter Champi-
onship with the 3-Gun. Have
HB100&200 on Wednesday and
then LV/SP/HV on Thursday
through Sunday.
 - c) If neither of the above pass, then
begin holding a Sporter Champi-
onship on a separate weekend
along with a registered Heavy
Varmint match.

3. Have a mandatory warm-up at every
registered IBS match. Eliminate the
use of 3 minute sight-in periods.
4. Eliminate the mass weigh-in. Weigh-ins
to be held at referees discretion as
currently stated in the rulebook.
5. Shower facilities mandatory for all IBS
ranges.
6. Junior shooters (16 years old and
under) to be allowed to shoot at a
discounted fee to be established when
this item is voted on. Suggestion is
either half price or free.
7. Clubs shall be required to provide the
following minimum trophies for IBS
Championships: First through Fifth in
Range aggregate. Second through
Sixth in Grand Aggregate and Multi-
Gun, Small Group at each yardage in
each class.
8. Require clubs hosting IBS matches to
guarantee the following minimum
trophies/awards: First through Third in
Grand, First at Range Aggregate,
Small group each class and yardage,
and First and Second in multi-gun.
9. Beginning January 1, 1987 the light
varmint class is to be limited to .230
caliber and smaller, and the sporter
class is to be larger than .230 caliber.
10. Re-establish the three gun varmint
championships as heavy varmint, light
varmint, and sporter classes if motion
#9 above passes.
11. A competitor firing before "commence
fire" command shall constitute
grounds for disqualification in all
classes of competition and voiding of
all groups fired at the effected match.

12. Change section v, paragraph G, to allow a competitor selection of benches when bench rotation is used. The intent is to allow husband/wife or families to use the same set of benches, to relieve the hardship associated with multiple equipment. Drawing of benches would still be required when bench rotation is not used. Competitors wishing to double up on equipment would be required to contact the club, in writing, at least two weeks in advance of the match.
13. Eliminate the "Did not qualify" concept for missing shots, and shots outside of the border. Replace the DNQ with a one minute of angle penalty for each missing shot, or shots outside of the border.
14. Require membership (IBS, NBRSA, or affiliated foreign) to shoot at any registered IBS shoot.
15. A. At all IBS registered shoots, require targets to be left hanging at the wailing wall until the aggregate has been figured, and places have been posted. In the case of foul weather, the statistician would be responsible for returning the targets to the scoring shack.
B. If A.) above not passed for all IBS registered shoots, then require for all IBS championships.

PAINTED POST

August 31st and September 1st was the final "Designated Tournament" for the IBS world, and a decent number of shooters made the journey. There was an NBRSA match that same weekend, at Smithfield, Pa., and many shooters were torn between the two. Both ranges offer good hospitality, good prizes, and a well-run match. It is to be hoped that these two ranges will coordinate their schedules next year; such a move could mean several more shooters for each match. The Editor had planned to go to Smithfield, except for the conflict; and so did several other shooters that he knew.

Sporter class, had 27 shooters, and the 100 meter small group record was lowered twice in the same relay. Ed Hoard fired an .097, and Jim Oliver ached that with an .090. At 100 yards: 1.) Ed Hoard .2500, 2.) Dick Maretzo .2658, 3.) Jim Oliver .2686, 4.) Tim LeBarron .2772, 5.) Frank Obrochta .2948. Small group was Jim Oliver's tentative record .090. At 200 yards: 1.) Nate Boop .3973, 2. Bill Gammon .4219, 3.) Vic Swindlehurst .4279, 4.) Jim Oliver .4418, 5.) Jack Sutton .4857. Small group was Jack Sutton's .352. Grand agg: 1.) Jim Oliver .3552, 2.) Bill Gammon .3613, 3.) Nate

16. Require loading data to include powder, amount of powder, caliber, bullet by make and weight, and primer to be listed on data card. Failure to do so would be grounds for disqualification.
17. If anyone blows up a rifle and injures themselves or someone else, they are to be banned from competition for one year; and a second occurrence shall cause them to be banned for life.
18. Require the President of IBS to appoint a Championship Committee. Said Committee would be comprised of three to four experienced competitors, and three to four range owners or operators. The purpose of the committee would be to develop a set of minimum standards required to hold IBS championships. These requirements would include such items as sanitary, electrical and mechanical, as well as trained staff capabilities. After the minimum requirements are established, the committee would then list the qualified clubs that could bid on the championships. Clubs requesting to be added to the bid list would require inspection by qualified personnel appointed by the President.
19. Re-issue the rule book, and update the Hunter class rules and the format of the rule book to be less confusing. Use a three ring binder format that is easier to update.

Boop .3912, 4.) Dick Maretzo .4023, 5.) Jack Sutton .4060.

Heavy bench class, (9 shooters), 100 yards: 1.) Carl Lynn .3382, 2.) Seely Masker .3384, 3.) Jerry Masker .3506. Small group, Carl Lynn .213. At 200 yards: 1.) Jerry Masker .5711, 2.) Bob White .6149, 3.) Carl Lynn .6530. Small group was Bob White's .684. Grand agg: 1.) Jerry Masker .4609, 2.) Bob White .4864, 3.) Carl Lynn .4956.

Heavy varmint class (37 shooters): 1.) Dave Brennan .2434, 2.) Jack Deming .2644, 3.) Ed Goff .2702, 4.) Lester Bruno .2710, 5.) Jerry Masker .2752. Small group was Ed Goff's .105. At 200 yards: 1.) Bill Gammon .3804, 2.) Dave Brennan .3906, 3.) Bob White .4014, 4.) Ed Goff .4049, 5.) Jim Oliver .4456. Small group was Chuck Beaver's .296. Grand agg: 1.) Dave Brennan .3170, 2.) Ed Goff .3376, 3.) Bob White .3546, 4.) Bill Gammon .3618, 5.) Jack Deming .3861.

Two gun awards. Sporter-heavy varmint: 1.) Bill Gammon .3616, 2.) Jim Oliver .3820, 3.) Dick Maretzo. Heavy varmint-heavy bench: 1.) Bob White .4205, 2.) Jerry Masker .4275, 3.) Dave Brennan .4479.

It wasn't a bad weekend for the Great Gunsmith . . . Seely Masker smithed all three winning guns.

International Benchrest Shooters 1985 Election Announcement

Ballots for the election of the Executive Secretary and Treasurer of the IBS will be mailed to the homes of members in late November. The ballots need to be returned to the Recording Secretary no later than December 31, 1985.

The candidates for offices are as follows:

EXECUTIVE SECRETARY
TONY MARGELEWICZ
MIKE TOTH

TREASURER
BILL BAILEY
PAUL RYAN

THURMONT

September 1st, with nine shooters at Thurmont, Maryland for a hunter classes match.

Varmint for score (4 shooters), and John Mason continued to shoot well: 1.) John Mason 250-18x, 2.) Dick Grosbier 250-12x, 3.) Richard Pryor 247-12x, 4.) Charles Kinard Jr. 247-5x.

Hunter class (3 shooters): 1.) Steven Weddle 246-10x, 2.) George Schuckers 242-5x, 3.) Eugene Davis 233-3x.

Varmint-hunter (2 shooters): 1.) William Wagman 249-11x.

ERRATA

The Editor has managed to goof up the top ten listing for heavy varmint 300 yard results from the Mainville Long-distance Championships. No excuse is offered other than the Editor was suffering from eye strain at the time . . . this particular match report went nine pages! Fortunately the top five were correct, and the editors eyes only went astray for four of the last five. The correct top ten are: 1.) Bob Hart .9349, 2.) Tony Boyer .9441, 3.) Tony Margelewicz .9467, 4.) Bob DeMonstoy .9562, 5.) Faye Boyer .9669, 6.) Gary Ocock .9830, 7.) Jim Borden 1.0149, 8.) Floyd Stohner 1.0217, 9.) Ed Starzinski 1.0773, 10.) W.S. Browning 1.0809. Apologies to aggrieved parties. No plans at the moment for recalling the September issue for re-printing.

DUNHAM'S BAY

Dunham's Bay, at the southern shore of Lake George, New York has regularly held TCL hunter class matches, but only in conjunction with their IBS registered varmint class matches. In 1985 The Bay elected to see how a hunter class only match would go over . . . so they set up the machinery for a New York State Championship, gathered together a generous supply of trophies, and announced that they were going to hold a shindig on August 10th and 11th. Some 51 shooters showed up . . . a mighty impressive figure for a first try. Now the Bay gang's talking about putting in a bid for the 1986 Hunter Nationals. Might give some of the Pennsylvania hunter gang a chance to see some new territory . . . and with Lake George only a couple of miles away . . . the families would not be without some great places to visit while papa was crying bitterly on the firing line.

In the hunter class (20 shooters), at 100 yards: 1.) Fran Vahle 248-10x, 2.) Alan R. Kogoy 248-10x, 3.) Mike Mastrianni 248-6x, 4.) Alan M. Kogoy 247-6x, 5.) Dennis Collins 247-4x, 6.) Scott Hahn 246-12x, 7.) Jim Oliver 246-10x, 8.) Joe Golba 246-8x, 9.) Joe Harvey 245-6x, 10.) Joe Gilbert 243-5x. At 200 yards: 1.) Joe Golba 245-8x, 2.) Jim Oliver 245-7x, 3.) Roger Gower 244-5x, 4.) Fran Vahle 244-5x, 5.) Alan R. Kogoy 244-2x, 6.) Jim Greenawalt 241-4x, 7.) Joe Harvey 241-3x, 8.) Alan M. Kogoy 240-5x, 9.) Mike Mastrianni 240-3x, 10.) Dennis Collins 240-1x. Grand agg went to one of the Bay's top hunter class shooters: 1.) Fran Vahle 492-15x, 2.) Alan R. Kogoy 492-12x, 3.) Jim Oliver 491-17x, 4.) Joe Golba 491-16x, 5.) Mike Mastrianni 488-9x, 6.) Alan M. Kogoy 487-11x, 7.) Roger Gower 487-8x, 8.) Dennis Collins 487-5x, 9.) Joe Harvey 486-9x, 10.) Scott Hahn 481-13x.

In the varmint-hunter class, Allie Euber, another Bay regular, tried the six-power scope stuff again . . . and won all the marbles again. With 10 shooters in the class, top five, 100 yards: 1.) Allie Euber 250-9x, 2.) Joe Harvey 249-11x, 3.) Tom Svack 249-9x, 4.) Ira Farnsworth 247-6x, 5.) Jim Euber 242-1x. At 200 yards: 1.) Allie Euber 247-3x, 2.) Jim Euber 246-2x, 3.) Tom Svack 244-4x, 4.) Joe Harvey 242-1x, 5.) Frank Coviello 240-1x. Grand agg: 1.) Allie Euber 497-12x, 2.) Tom Svack 493-13x, 3.) Joe Harvey 491-12x, 4.) Jim Euber 488-3x, 5.) Ira Farnsworth 485-12x.

In the varmint-for-score class, with 21 shooters, the competition was fierce, as witness Allie Euber's 100 yard score of 247-18x . . . good for 18th place out of 21 shooters! And Jim Borden, an accomplished 200 yard shooter from way back, blew the doors off the field at 200 yards,

with a 250-16x, which I believe to be a new IBS record. Record or no, it took the x-count to make Mr. Borden the grand agg winner . . . his 499 score merely tied him with Jim Greenawalt, Tom Svack, and Ira Farnsworth.

At 100 yards: 1.) Dick Maretzo 250-18x, 2.) Ben Druck 250-18x, 3.) Jim Greenawalt 250-17x, 4.) Leo A. Gustafson 250-16x, 6.) Ed Hoard 250-15x, 7.) Jim Oliver 250-14x, 8.) Seely Masker 150-11x, 9.) Tom Svack 249-15x, 10.) Gordie Euber 249-14x. At 200 yards: 1.) Jim Borden 250-16x, 2.) Tom Svack 250-8x, 3.) Bob DeMonstoy 249-8x, 4.) Jim Greenawalt 249-6x, 5.) Norm Dixon 249-4x, 6.) Ira Farnsworth 249-3x, 7.) Allie Euber 249-2x, 8.) Dick Maretzo 248-10x, 9.) Seely Masker 248-8x, 10.) Ben Druck 248-6x. When grand agg time was at hand, consider that one needed a 497-22x . . . for tenth place! Top ten: 1.) Jim Borden 499-27x, 2.) Jim Greenawalt 499-23x, 3.) Tom Svack 499-23x, 4.) Ira Farnsworth 499-19x, 5.) Dick Maretzo 498-28x, 6.) Ben Druck 498-24x, 7.) Seely Masker 498-19x, 8.) Norm Dixon 498-15x, 9.) Bob DeMonstoy 497-25x, 10.) Ed Hoard 497-22x.

There was a four man team match, and Joe Golba, Seely Masker, Jim Oliver, and Mike Mastrianni took the honors. Before the match began, Joe Golba made the statement that the top five hunter class shooters would outscore the top five in varmint-for-score. It wasn't too close . . . 1995-91x to 1962-57x for varmint-for-score. Joe Golba paid for a case of beer, and was given a free copy of the book "Never Bet On Insurmountable Ideas . . . at Even Odds". I'm told that the beer was quite good; chilled just right.

The many visitors from far places are invited back again. Joe Golba wants a chance to get even in the betting.

YORK

The York (Pa.) Izaak Walton League hosted a 200 yard match for the hunter classes on August 18th. It was sort of a rainy day, but as we know, unless it's a cloud burst, some pretty fair shooting is done in the rain.

Varmint hunter class (6 shooters): 1.) Bob Linn 248-6x, 2.) Bill Wagman 243-4x, 3.) Randy Fritz 243-4x. Agg winner Bob Linn, of York, Pa. fired a 6 PPC, Remington action, Lyman 6x scope, 27.0 grains of T 322 with 62.5 grain Watson bullets and Federal primers, in a rifle gunsmithed by Clarence Hammonds.

Hunter class (8 shooters): 1.) Guy Green 247-2x, 2.) Vince Pastorella 242-2x, 3.) Charles Pardoe 241-3x, 4.) Leroy Hopkins 241-3x, 5.) Stan Starzinski 239-0x. Agg winner Guy Green, of Hughesville, Pa. fired a .308, Remington 722 action, Hart barrel, Pecar 6x scope, 39.0 grains of H 4895 with 168 grain Sierra bullets, and Federal primers, in a rifle smithed by Guy Green.

Varmint for score (12 shooters): 1.) Ed Starzinski 250-10x, 2.) Clarence Hammonds 250-9x, 3.) David Davis 249-4x, 4.) Dick Pryor 248-4x, 5.) Richard Parker 247-5x, 6.) Don Brown 245-3x. Agg winner Ed Starzinski, of Middletown, Pa. fired a 6 PPC, Remington action, Hart barrel, Lyman Siebert 30x scope, 27.0 grains of T 322 with 68 grain Euber bullets, and Federal primers, in a rifle that was smithed by Hart.

BACK ISSUES

Now available — 1-3 issues \$2.00, 4-11 issues \$1.50 each, 12 or more \$1.00 each. Write James Hart, R.D. 3, Lafayette, N.Y. 13084. Make checks payable to Precision Shooting.



DUNHAMS BAY
August 1985

New York State Hunter Class Championships. Shooters, range crew, kitchen staff, scoring crew . . . the whole kit and kaboodle.



NBRSA News

Edited by Dave Brennan

1985 HUNTER NATIONALS

**Huck Hutson Nails Dan Jarvis and Wayne Corley
at the Wire; Top Three Fire 493 Scores**

CORLEY AND HUTSON WIN YARDAGE CROWNS

It's gonna be a long winter down among the slews and bayous of Cajun country. The Lafayette, Louisiana gang hosted the 1985 Hunter Nationals on October 5th and 6th, and whole bunches of Louisiana's finest sons came out of the swamps, dragging their muskets behind them, to defend sacred soil. All that were needed were guest appearances by Andrew Jackson, Jean Lafite, and a few thousand redcoats to make it an instant replay of an earlier battle of New Orleans.

Unlike the earlier (1814) brawl, the 1985 replay, when the battle was over, had the field strewn with cajun bodies. "Furriners" had taken both yardage crowns, the grand

agg title, and the top five places in the grand. Heck, when things got rough, at the last minute the Cajuns even dragged Don Geraci out of the closet, dusted him off a bit, and sent him into the breach. He didn't do so hot either; a characteristic he merely shared with many of his neighbors that weekend.

To really put the cherry on top of the sundae, on the same weekend Louisiana State University (LSU) was, on its own field, losing to hated arch-rival Florida by a 20-0 score. The Louisiana governor appeared briefly on national television on Monday morning, and expressed the opinion that "apparently we should have had LSU fire

the rifles, and let Hub City play Florida". It didn't seem like much of a plan in retrospect, but the following weekend, against Auburn, Langlinais carried 23 times for over a hundred yards, and Marcy Lyons completed 17 of 25 passes. The collegians lost a TCL match to Dunhams Bay the same weekend however. But enough for the opening remarks.

There was a bit of a breeze that weekend. With 58 top-notch hunter shooters on the grounds, and only one 250 score at the 100 yard stage . . . certainly something was moving out front. Wayne Corley, of St. Charles, Missouri, was the

Continued on next page

Top 20 Equipment List

Name of Shooter	Caliber	Action	Barrel	Scope	Gunsmith	Stocker	Case	Load	Bullet
Hutson, Huck	6IntImp	Rem700	Hart	WeaverT6	Erhardt	Roller	Rem	39.5g H380	Berger 68g
Jarvis, Dan	30 HBR	Rem700	Hart	WeaverT6	Smart	Smart	Rem	38.5g H4895	Sierra 168g
Corley, Wayne	30 HBR	Rem700	Hart	Lyman6X	Smart	Self	Rem	38.5g H4895	Sierra 168g
Smart, Larry	30 HBR	Rem700	Hart	WeaverT6	Self	Self	Rem	37.8g H4895	Sierra 168g
Green, Clark	30X47	Rem700	McMillan	WeaverT6	Freund	Self	Win	37.5g H4895	Sierra 168g
Rich, Ed	.308	Rem700	Hart	WeaverKT6	Sinclair	Sinclair	Fed	40.5g H4895	Sierra 168g
Laviolette, Weldon	.308	Rem700	McMillan	WeaverT6	Brackney	Green	Norma	42.6g T4895	Sierra 168g
Wilson, Mike	.308	Wichita	Wiseman	WeaverKT6	Williams	Self	Rem	47g H380	Sierra 150g
Hensler, Jerry	.308Min	Rem700	Hart	Lyman6X	Dietz	Zech	Rem	42g H4895	Gonzales 125g
LeBlanc, Richard	6HLS	Rem700	McMillan	Lyman6X	Brackney	Brackney	Win	34g H4895	Metzger 70g
Gibson, Lynn	.308Min	Rem700	Hart	Lyman6X	Dietz	Dietz	RemBR	(?) H322	Gonzales 125g
Chism, Guy	30 HBR	Rem700	Hart	WeaverT6	Smart	Smart	Rem	38.5g H4895	Sierra 168g
Dickensheets, Tom	.308	Rem700	Schneider	WeaverT6	Ambler	Ambler	Fed	43g H322	Gonzales 125g
Green, Carroll	.308	Rem700	McMillan	Lyman6X	McMillan	Self	Norma	41g H4895	Sierra 168g
Geraci, Don	6HLS	Rem700	Hart	Leupold6X	Brackney	Callan	Win	34g H4895	Euber 69g
Russell, Bob	.308	Rem700	Wiseman	WeaverT6	Broughton	Williams	Fed	47g H380	Sierra 168g
Wilson, Frank	.308Min	Rem700	Shilen	Lyman6X	Jackson	Self	Rem	39g H322	Gonzales 110g
Langlinais, Louis	6Hunter	Shilen	Hart	WeaverT6	Hutcherson	Self	Win	34.7g H4895	Metzger 70g
Scott, Charley	6X45	Rem700	Atkns	WeaverT6	Hoehn	Self	Rem	35.2g BL 32	Watson 70g
Waterman, Russell	.308	Shilen	McMillan	Lyman6X	Hutcherson	Self	Fed	41.4g H4895	Sierra 168g

1985 HUNTER NATIONALS

Continued from page 41

only 250 shooter on the grounds that day, with Marcy Lyons, Tom Dickensheets, Weldon Laviolette, Dan Jarvis, Gary Vincent and Larry Smart bringing in 249 scores. Top ten, at the yardage: 1.) Wayne Corley 250-11x, 2.) Marcy Lyons 249-17x, 3.) Tom Dickensheets 249-13x, 4.) Weldon Laviolette 249-12x, 5.) Dan Jarvis 249-12x, 6.) Gary Vincent 248-8x, 7.) Larry Smart 249-6x, 8.) Guy Chism 248-9x, 9.) Frank Wilson 248-6x, 10.) Carrol Green 247-11x. Marcy Lyons had high x-count at the yardage, with 17x score.

At 200 yards, things were definitely moving around out front; only 10 of the 58 shooters were able to finish at 240 or above. And Huck Hutson, of Red Lodge, Montana (not exactly bayou country, that), took the yardage honors convincingly. Top ten: 1.) Huck Hutson 246-4x, 2.) Clark Green 244-5x, 3.) Dan Jarvis 244-3x, 4.) Francis Broussard 243-4x, 5.) Wayne Corley 243-3x, 6.) Larry Smart 242-5x, 7.) Richard LeBlanc 242-2x, 8.) Jerry Hensler 241-4x, 9.) Mike Wilson 241-3x, 10.) Ed Rich 240-4x.

In the grand agg, Huck Hutson and Dan Jarvis hit the finish line together, with identical 493-15x scores . . . at which point Hub City had to sweep the cobwebs off the rule book, and study the Creedmore rule. And the big trophy went to Huck Hutson, who had traveled quite a distance to give it his best effort. There was dancing in the streets at Red Lodge, Montana that evening . . . blizzard or not. Top twenty, grand agg: 1.) Huck Hutson 493-15x, 2.) Dan Jarvis 493-15x, 3.) Wayne Corley 493-14x, 4.) Larry Smart 491-11x, 5.) Clark Green 489-11x, 6.) Ed Rich 487-15x, 7.) Weldon Laviolette 487-13x, 8.) Mike Wilson 487-11x, 9.) Jerry Hensler 487-10x, 10.) Richard LeBlanc 487-7x, 11.) Lynn Gibson 486-13x, 12.) Guy Chism 486-10x, 13.) Tom Dickensheets 485-15x, 14.) Carroll Green 485-12x, 15.) Don Geraci 485-12x, 16.) R.E. Russell 485-10x, 17.) Frank Wilson 484-8x, 18.) Louis Langlinais 484-6x, 19.) Charles Scott 484-5x, 20.) Russell Waterman 483-14x.

Readers who give the equipment listing a bit of attention will note the resurgence of the .30 caliber. Some 15 out of the top 20 places were .30 caliber guns.

And finally, with the '86 Nationals going to Porcupine, South Dakota . . . whoever would have predicted that to be the area to give us the '85 National Champion? We're gonna have to go up into the Badlands to get our big trophy back, men (and ladies).

ISSAQUAH

The Puget Sound (Washington) gang does not do things simply . . . not if the club elders can figure out a way to make them complicated . . . for a poor struggling editor who is just trying to make ends meet, and feed a certain number of hungry benchrest rifles. I have known Puget Sound to have the darndest benchrest matches, done simply (I am sure) to bedevil the editor. On July 13th and 14th, they were up to their old tricks. It was the Northwest Regional 10 shot unlimited championships. NBRSA rules dictate that regional championships can only be at 100-200 yards. Puget Sound tacked on a 300 yard stage, outside the regionals, and sent me two sets of aggregate results: the regionals proper, and the bastard child 300 yard addition. If only they had not registered the 300 yard stage, I could have ignored them. But they're a crafty bunch up there in the Northwest . . . they registered it. And the editor became sort of cross-eyed while trying to straighten it all out. I am not at all convinced that the world is really ready for the Puget Sound Benchrest Club. Even if some of the worse ones are my friends.

Fifteen shooters showed up for the madness. There were five Weber actions on line, and I can only presume O.L. Vosburgh was trying to abscond (Synonym: beg, borrow, steal) with one of them. If you don't own a Weber, and you want one badly, the world can be a confining place. At 100 yards: 1.) Lee Andrews .3080, 2.) Bob Fritz .3236, 3.) Bill Crosby .3398, 4.) Sid Sato .3828, 5.) Steve Kostanich .4054. Small group, Bill Crosby .200. At 200 yards: 1.) Steve Kostanich .4908, 2.) Lee Andrews .5533, 3.) Bill Crosby .5643, 4.) Bob Fritz .5646, 5.) Sid Sato .6077. Small group, Sid Sato .480. The Regional grand agg: 1.) Lee Andrews .4307, 2.) Bob Fritz .4441, 3.) Steve Kostanich .4481, 4.) Bill Crosby .4521, 5.) Sid Sato .4953. Grand agg winner Lee Andrews, of Helena, Montana fired a 6 PPC, Hall B action, Hart barrel, Leupold 36x scope, 27.5 grains of 322 with Euber 68 grain bullets, in a rifle smithed and stocked by Fred Sinclair.

At 300 yards, top five were: 1.) Bill Crosby .5860, 2.) Lee Andrews .5876, 3.) Bob Fritz .6162, 4.) Steve Kostanich .6479, 5.) Andy Gilfillan .8004. Small group was Lee Andrews 1.182. The 100-200-300 yard aggregate: 1.) Lee Andrews .4830, 2.) Bill Crosby .4968, 3.) Bob Fritz .5015, 4.) Steve Kostanich .5147, 5.) Sid Sato .6591.

1985 GULF COAST REGION THREE GUN VARMINT CHAMPIONSHIP

The Gulf Coast Region Sporter and Light Varmint Championships were held at the Tom Ball Range near Houston, Texas on July 6 & 7, 1985 and the Gulf Coast Region Heavy Varmint Championship had previously been held at the Crawfish Shoot in Lafayette, Louisiana on May 5, 1985. To qualify for this three gun varmint championship it was necessary that the shooters shoot in all three of these events. An average of these aggregates was computed to get a three gun aggregate which is listed below for the top 20. As can be seen the aggregates were real close with Jack Heath beating out Louis Langlinais for the 1985 Gulf Coast Region Three Gun Varmint Championship. Heath finished fourth in the Sporter; second in the Light Varmint; and thirteenth in the Heavy Varmint. However the Heavy Varmint was in the Crawfish Match where 118 of some of the best shooters in the nation participated. Heath used two rifles both chambered with his custom reamer labeled 6HIT. It is an improved 6PPC, using Sako .220 Russian brass, with the shoulder blown 0.060 forward of the standard 6PPC. The loads for both rifles is 29.6 grains of BR-28 powder with 68 grain Berger bullets. This load has been chronographed at 3500 fps. He uses Hart barrels chambered by Mike Scheltz. The light gun has a Stolle action and was stocked by Mike Scheltz and the heavy gun has a Hall B action and was stocked by Frank Wilson.

TOP 20 COMPETITORS

1. Jack Heath	.2828
2. Louis Langlinais	.2933
3. Jimmy Broussard	.3015
4. Ron Prachyl	.3097
5. Gary Vincent	.3149
6. Harold Henderson	.3253
7. Don Geraci	.3280
8. Russell Waterman	.3312
9. Joe Staples	.3342
9. Kenneth Sanson	.3342
11. Marcy Lyons	.3377
12. James Toeppich	.3507
13. Jake Gottfredson	.3529
14. Howard Barry	.3571
15. T. J. Jackson	.3669
16. Frank Wilson	.3768
17. Bill Massey	.3801
18. Denny Sanson	.3985
19. Audy Adams	.4017
20. Howard Dietz	.4022

DESOTA

The Mid-Continent region had the sporter and light varmint regionals at the Bruce Hodgson range on June 22nd and 23rd. In the light varmint class, 24 other shooters just sat back and watched Rex Reneau, of Bethany, Oklahoma annihilate the NBRSA grand agg record (the new record has since been officially confirmed). Mr. Reneau appears to have suddenly regained his winning form of 1983. The Editor is told that a commonly heard quote after the match was the boast "I know Reneau". Yes, I know; a corny cliché ... but the Mid-Continent region came up with it on short notice. So we'll overlook this one.

Light varmint class (25 shooters), 100 yards. Rex was unable to get the one really low group that he needed this day, but rather put together groups of .271, .177, .246, and .195, for a .2042 figure. He was followed by: 2.) Gene Adkins .2462, 3.) Larry Scharnhorst .2742, 4.) Dennis Wagner .2808, 5.) Bud Rainwater .2958. In the small group category, Jim Kirk's .088 official screamer was the group that Rex was looking for. At 200 yards there was a real vacuum out in front of the benches, Rex Reneau fired groups measuring .479, .272, .319 and .479 for a .2021 figure. Those trailing: 2.) Red Cornelison .2274, 3.) Herb Hays .2359, 4.) Dennis Wagner .2449, 5.) Larry Kuse .2783. Small group, Dennis Wagner .258. In the grand agg, it was of course all Rex Reneau: 1.) Rex Reneau .2031, 2.) Dennis Wagner .2628, 3.) Gene Adkins .2659, 4.) Red Cornelison .2809, 5.) Larry Scharnhorst .2866. In his record breaking spree, Rex fired a 6 PPC, Stolle action, Hart barrel, Leupold 36x scope, 28.0 grains of T 322 with his own 68 grain bullets, in a rifle smithed by Dennis Wagner, and stocked by himself.

In the sporter section, the winds picked up, and when that nonsense starts, Don Creach is a tough act to handle on that range. At 100 yards: 1.) Dennis Wagner .2428, 2.) Rex Reneau .2790, 3.) Marty Gordon .2904, 4.) Bud Rainwater .2978, 5.) Red Cornelison .3350. Small group, Dennis Wagner .150. At 200 yards, Rex Reneau went out to 1.890 for his final group ... which was fate's way of reminding Mr. Reneau how fleeting fame is. Top five: 1.) Don Creach .3796, 2.) Herb Hay's .3868, 3.) Jerry Turley .4233, 4.) Bud Rainwater .4241, 5.) Karl Swenson .4481. Small group, Jerry Turley's .440. Grand agg, and it was a bit close for the top position: 1.) Don Creach .3604, 2.) Bud Rainwater .3609, 3.) Dennis Wagner .3645, 4.) Herb Hay's .3780, 5.) Karl Swenson .4111. Grand agg winner Don Creach, of Kansas City, fired a 6 PPC, Stolle action, Hart barrel, Leupold 36x scope, and 52.5 clicks on the Culver

measure of BR 28 with Engelbrecht 68 grain bullets.

CINCINNATI

The Fairfield gang hosted a well-attended (38 shooters) heavy varmint-light varmint class match on June 15th and 16th. Conditions were favorable, and several of the locals got into a bit of a knock down-drag out brawl, particularly over the grand agg placings ... indeed even an international brawl ... with a few Canadians wielding blackjacks in the melee. Fairfield's prohibition of knives in such matters was observed by all, however.

The light varmint class was a confusing scene, no shooter was able to make the top six at both yardages. At 100 yards: 1.) Dwight Scott .2174, 2.) Harry Hoppe .2306, 3.) Jimmy Stewart (presumably not the movie actor) .2352, 4.) Murray Hardenbergh .2490, 5.) Bill Ponder .2566, 6.) Sal Ventimiglia .2632. Small group, Mike Niblett's .125. At 200 yards: 1.) Paul Campbell .2594, 2.) Jim Fedorowich .2617, 3.) Bill Forrester .2666, 4.) Pat Myles .2784, 5.) Randy True .3129, 6.) Harry Hoppe .3149. Small group honors to Joe Kabel, for a .286. Grand agg: 1.) Bill Forrester .2657, 2.) Jim Fedorowich .2680, 3.) Harry Hoppe .2728, 4.) Pat Myles .2819, 5.) Jimmy Stewart .2846, 6.) Paul Campbell .2936. Grand agg winner Bill Forrester, of Louisville, Kentucky fired a 6 PPC, Stolle action, Schneider barrel, Leupold 45x conversion, 27.0 grains of 322 with Simonson bullets, in a rifle smithed by Hasecuster, and stocked by himself.

The heavy varmint class was the same thing; no one could make top six for both yardages. Our Fairfield associates were hardly models of consistency on this particular weekend! At 100 yards: 1.) Jim Fedorowich .2058 (a new Canadian record), 2.) Paul Campbell .2274, 3.) John Schoenlein .2306, 4.) Ferris Pindell .2380, 5.) Fred Hasecuster .2396, 6.) Mike Niblett .2410. Jim Fedorowich also picked up the small group trophy, with a .119. At 200 yards: 1.) Dwight Scott .2685, 2.) Joe Kabel .2822, 3.) Walter Balch .2850, 4.) Jimmy Campbell .2923, 5.) Joe LaToof .2940, 6.) Jimmy Stewart .3173. Small group was Dwight Scott's .299. Grand agg: 1.) Joe Kabel .2676, 2.) Jimmy Campbell .2678, 3.) Dwight Scott .2680, 4.) Mike Niblett .2753, 5.) Ferris Pindell .2785, 6.) Paul Campbell .2939. Grand agg winner Joe Kabel, of Cincinnati, Ohio fired a 6 PPC, Stolle action, Wiseman barrel, Leupold 36x scope, an unlisted powder with Riegel 66 grain bullets, in a rifle smithed by Ferris Pindell, and stocked by Ike Eichenlaub.



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NBRSA MATCH SCHEDULE

EASTERN REGION

CAMILLUS SPORTSMEN'S CLUB, Camillus, New York. Contact: Hank L. Gonnella, 420 Hawley Avenue, Syracuse, NY 13203. (315) 474-1746.

CHIPPEWA COUNTY SHOOTING ASSOCIATION, Sault Sainte Marie, Michigan. Contact: Joseph Haller, Rt. 1, Box 117, Nicolet Road, Sault Sainte Marie, MI 49783

CHIPPEWA RIFLE CLUB, Easton, Ohio. Contact: Mildred Spencer, 3016 Melv Drive, Barberton, OH 44203.

FAIRCHANCE GUN CLUB, Smithfield, Pennsylvania. Contact: Roy P. Leckemby, Rt. 2, Box 21, Smithfield, PA 15478. (412) 569-7973. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

FAIRFIELD SPORTSMAN'S CLUB, Fairfield, Ohio. Contact: Jay Fouts, 1191 Dale Road, Hamilton, OH 45013. (513) 892-1715. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

HOLTON GUN AND BOW CLUB, Holton, Michigan. Contact: Theodore Geldaker, Jr. 3369 Waalkes Street, Muskegon Hts., MI 49444. (616) 733-2422.

KANE FISH AND GAME CLUB, Kane, Pennsylvania. Contact: Dick Lockwood, Box 112, Kane, PA 16735. (814) 837-6216.

KELBLY'S RIFLE RANGE, Marshallville, Ohio. Contact: George Kelbly, 7222 Dalton Fox Lake Road, North Lawrence, OH 44666. (216) 683-4674. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

MACKINAC STRAITS SHOOTERS, St. Ignace, Michigan. Contact: Bud Hill, 11 South Boundary Road, St. Ignace, MI 49781.

McKINLEY B.R. SHOOTERS, Canton, Ohio. Contact: Harvey LaChat, 12085 Wooster Street, N.W., Massillon, OH 44646.

REED'S RUN RIFLE CLUB, Augusta, Ohio. Contact: Leora Demeter, 1907 Franklin Place, N.W., Canton, OH 44709. (216) 492-7986. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

SHELBY COUNTY DEER HUNTERS ASSOCIATION, Contact: Phil Jones, 414 Summit Avenue, Troy, OH 45373. (513) 339-4833. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

GULF COAST REGION

AUSTIN RIFLE CLUB, Austin, Texas. Contact: Frank Wilson, 4904 Rollingwood, Austin, TX 78746. (512) 327-0838.

BATON ROUGE RIFLE & PISTOL CLUB, Baton Rouge, Louisiana. Contact: Jimmie Broussard, 11785 Foster Rd., Baton Rouge, LA 70811. (504) 774-7953.

CENTRAL TEXAS BENCH REST SHOOTERS, INC., New Braunfels, Texas. Contact: Tom C. Doss, Route #2, Box 2203, Boerne, Texas 78006. Home phone (512) 249-3389. Office (512) 684-5111, Ext. 3282.

DIETZ RIFLE RANGE, New Braunfels, Texas. Contact: Howard Dietz, Star Rt. 1, Box 65, New Braunfels, TX 78130. (512) 885-4662.

FORT STOCKTON RIFLE CLUB, Ft. Stockton, Texas. Contact: Larry Baggett, 507 N. Main St., Fort Stockton, TX 79735. (915) 336-6278.

HUB CITY RIFLE AND PISTOL CLUB, Lafayette, Louisiana. Contact: Louis Langleins, 932 Hugh Wallis Road, Lafayette, LA 70501. (318) 235-8978.

MIDLAND SHOOTERS, INC., Midland, Texas. Contact: Jef Fowler, P.O. Box 6421, Midland, TX 79701. (915) 563-4341.

NAVARRO GUN CLUB, Corsicana, Texas. Contact: Robert Hull, Box 488, Corsicana, TX 75110. (214) 872-1868

SAN ANGELO GUN CLUB, San Angelo, Texas. Contact: Buster Reed, 2409 Waco St., San Angelo, TX 76901. (915) 949-5726.

SOUTHWEST LOUISIANA RIFLE AND PISTOL CLUB, Lake Charles, Louisiana. Contact: James Neal, Jr., 1203 California St., Lake Charles, LA 70605. (318) 477-6440.

TOMBALL GUN CLUB, Houston, Texas. Contact: Ed Brown, 6511 Richwood St., Houston, TX 77087. (713) 649-7558.

Note: All Gulf Coast Region, Louisiana State and Texas State Championships are 100 Yards & 200 Yards. Three (3) minute sight-in rule will be used, except for Hunter matches and where otherwise noted.

MID-CONTINENT REGION

COLORADO BENCHREST SHOOTERS, INC., Morrison, Colorado. Contact: Dan Dowling, 10919 W. 59th Place, Arvada, CO 80004. (303) 422-6884.

KANSAS CITY MILL CREEK RIFLE CLUB, Desota, Kansas. Contact: Larry Kuse, 8112 W. 89th Street, Overland, Park, KS 66212. (913) 649-7344.

OKIE SHOOTERS, Edmond, Oklahoma. Contact: Rex Reneau, 7409 N.W. 28 Terr., Bethany, OK 73008. (405) 787-8529.

SANDHILL RIFLE AND PISTOL CLUB, Great Bend, Kansas. Contact: Steve Ochs, 3023 17th, Great Bend, KS 67530. (316) 792-2245.

SPRINGFIELD RIFLE CLUB, Springfield, Missouri. Contact: Mike Bishop, 409 South Avenue, Springfield, MO 65806. (417) 865-5790.

TULSA BENCHREST CLUB, Skiatook, Oklahoma. Contact: Wayne Blacketter, 7811 E. 2nd Street, Tulsa, OK 74112. (918) 835-5195.

WELD COUNTY FISH AND WILDLIFE ASSOCIATION, INC., Greeley, Colorado. Contact: John Ambler, 2025 Cheshire Street, Ft. Collins, CO 80526. (303) 226-5217.

REGIONAL POLICY: NO WARM UP MATCHES WILL BE FIRED. THREE MINUTES WILL BE ALLOWED PRIOR TO THE FIRST RECORD MATCH AT EACH YARDAGE TO GET ON PAPER.

MISSISSIPPI VALLEY REGION

B & R GUN CLUB, Westfield, Indiana. Contact: Bill Gwin, 2302 State Road 38 East, Westfield, IN 46074. (317) 877-3108. All matches will start at 9:00 a.m. Warm up matches WILL BE fired.

BEESON'S RIFLE RANGE, Etna Green, Indiana. Contact: Jon Leu, 860 US Hwy 30 East, #10, New Haven, IN 46774. (219) 749-9810.

BENCHREST RIFLE CLUB OF ST. LOUIS, St. Louis Missouri. Contact: Art Freund, 1038 Hornsby Avenue, St. Louis, MO 63147. (314) 388-1352. (NO WARM UP MATCHES).

EGYPTIAN RIFLE AND PISTOL CLUB, Carbondale, Illinois. Contact: Marvin Voss, RR 1, Dedar Lane 15, Carbondale, Illinois 62901.

NORTH CENTRAL REGION

ATCHINSON RIFLE CLUB, Cooperstown, North Dakota. Contact: Richard Reiten, P.O. Box 589, Cooperstown, ND 58425. (701) 797-2668.

BUFFALO RIFLE CLUB. Contact: L. Mosebar, P.O. Box 284, Story, WY 82842.

CEDAR RAPIDS BENCHREST CLUB, Cedar Rapids, Iowa. Contact: Ed Kvarda, 2406 Ellis Boulevard, N.W. Cedar Rapids, IA 52405. (319) 396-0017.

COUNCIL BLUFF RIFLE AND PISTOL CLUB, Council Bluff, Iowa. Contact: Robert Dodd, 8230 Wilson Drive, Ralston, NE 68127. (402) 331-9529.

DAKOTA BENCHREST SHOOTERS CLUB, Sioux Falls, South Dakota. Contact: Daryl Jensen, 615 South Willow Street, Sioux Falls, SD 57105. (605) 338-4118.

MINNETONKA GAME AND FISH CLUB, St. Francis, Minnesota. Contact: Don Judd, 645 20th Avenue, N.W., New Brighton, MN 55112. (612) 633-6799.

OAK HILLS GUN CLUB, Blue Grass, Iowa. Contact: James J. Bounds, 3802 26 Street, Moline, Illinois 61265. Phone (home) (309) 762-1732; (work) (309) 762-6783.

Warm-up matches will be shot at all matches. All matches start at 9:00 am. Special class factory rifles at all matches.

PRAIRIE DOG TARGET CLUB, Porcupine, South Dakota. Contact: Don Deckert, R.R., Porcupine, SD 57772. (605) 288-1919.

RIVER CITY RIFLE AND PISTOL CLUB, Mason City, Iowa. Contact: Terry Meyer, RR 1, Box 50, Thornton, Iowa 50479. (515) 998-2860.

WILTON RIFLE CLUB, Muscatine, Iowa. Contact: Dennis Shepard, 12 Debbie Avenue, Muscatine, IA 52761. (319) 264-3909.

NORTHWESTERN REGION

ENTIAT BENCH REST CLUB, #2 Canyon, Wenatchee, Washington. Contact: Bob Miller, Box 395, Entiat, WA 98822. (509) 784-1648. All matches start at 8:00 am.

LaGRANDE RIFLE AND PISTOL CLUB, LaGrande, Oregon. Contact: Greg Vergari, Rt. #4, Box 4411, LaGrande, Oregon 97850. (503) 963-0529

NAMKA BENCHREST SHOOTERS CLUB, Calgary, Alberta, Canada. Contact: Al Mirdoch, Box 3070, Station B, Calgary, Alberta, Canada T2M-4L6. (403) 242-5679.

PRICKLY PEAR SPORTSMEN'S ASSOCIATION, Helena, Montana. Contact: Lee Andrews, 401 S. California St., Helena, Montana 59604. (406) 442-9813.

PUGET SOUND BENCHREST RIFLE CLUB, Issaquah, Washington. Contact: Bill Crosby, P.O. Box 125; Edmonds, WA 98020. (206) 743-2477. All matches start at 9:00 am, 10:00 am on Sundays.

SNOW SHOE GUN CLUB, Kenai, Alaska. Contact: Steve Meyer, P.O. Box 125, Kenai, Alaska 99611.

TRI-COUNTY GUN CLUB, Sherwood, Oregon. Contact: Bob Scheible, 23790 S. Beatie Road, Oregon City, Oregon 97045. (503) 632-4673.

WESTERN MONTANA FISH AND GAME ASSOCIATION, Missoula, Montana. Contact: Bill Cote, 3314 Paxson, Missoula, Montana 59801. (406) 549-4719. All matches start at 9:00 am, registration at 8:30 am.

SOUTHEASTERN REGION

SOUTHEAST REGION POLICY: NO WARM UP MATCHES: 3 MINUTE SIGHT IN PERIOD AT ALL MATCHES! All will be "on paper" before the first record match is started.

ALLEGHANY COUNTY RIFLE ASSOCIATION, Sparta, North Carolina. Contact: Charles Joines, Box 306, Sparta, NC 28675. (919) 372-4847.

BUCCANEER GUN CLUB, Wilmington, North Carolina. Contact: Don Sloop, 3306 Bragg Drive, Wilmington, NC 28403. (919) 799-4627.

CENTRAL FLORIDA BENCHREST CLUB, Melbourne, Florida. Contact: James Hare, 5700 Palm Dr., Ft. Pierce, Fla. 33450. (305) 465-8782.

CHARLOTTE RIFLE & PISTOL CLUB, P.O. Box 11183, Charlotte, NC 28209.

FAYETTE COUNTY GUN CLUB, INC., P.O. Box 212, Fayette, Alabama. Contact: Charles Lahay, 131 14th Court, N.W., Fayette, AL 35555. (205) 932-3684.

GALLATIN GUN CLUB, Gallatin, Tennessee. Contact: Charles Curtiss, Rt. 4, Box 241, Sparta, Tennessee 38583. (615) 761-2765.

GREENVILLE GUN CLUB, INC., P.O. Box 123, Greenville, South Carolina. Contact: Ed Watson, 2404 Wade Hampton Boulevard, Greenville, SC 29615. (803) 244-7948. No warm-up matches. 3 minute sight in period when you go to the bench for your first record match. Everyone will be on paper before the first record shot is fired.

ISAAK WALTON BENCHREST CLUB, Rt. 5 - 300 Manakin Rd., Midlothian, Virginia 23113.

JACKSON COUNTY SHOOTING CLUB, P.O. Box 1936, Sylva, North Carolina. Contact: James Messer, Box 2, Webster, NC 28788. (704) 586-5921.

KETTLEFOOT ROD AND GUN CLUB, P.O. Box 384, Bristol, Tennessee. Contact: Claude Smith, 2325 Westfield, Bristol, VA 24201 (703) 669-6594 or J.D. Stamper (703) 889-4329.

LONG CREEK RIFLE AND PISTOL CLUB, Charlotte, North Carolina. Contact: Larry Earp, 1029 Byrum Street, Charlotte, NC 28216. (704) 399-1793.

MEMPHIS RIFLE AND REVOLVER ASSOCIATION, INC., Memphis, Tennessee. Contact: George Busby, 3387 St. Elmo, Memphis, TN 38128. (901) 372-1728.

MID-CAROLINA RIFLE CLUB, P.O. Box 814, Columbia, South Carolina. Contact: Jerry Shelton, 217 Cedar Vale Drive, Lexington, SC 29072. (803) 356-3047.

PALMETTO GUN CLUB, Charleston, South Carolina. Contact: Bruce Hillman, 6220 Murray Avenue, N (Apt 6A). Hanahan, SC 29406.

RIVER BEND GUN CLUB, P.O. Box 292, Norcross, Georgia. Contact: Joe Carlisle, 31 Swinnett Drive, Apt. C-5, Lawrenceville, GA 30245. (404) 962-4687.

ROANOKE RIFLE AND REVOLVER CLUB, P.O. Box 8252, Roanoke, Virginia. Contact: Ted Manning, R.D. 4, Box 416B, Salem, VA 24153. (703) 362-8046.

TWIN CITY RIFLE AND PISTOL CLUB, Roanoke Rapids, North Carolina. Contact: John Reber, 2306 Old Farm Road, Roanoke Rapids, NC 27870.

VOLUNTEER RIFLE AND PISTOL CLUB, Knoxville, Tennessee. Contact: Nick Young, 10816 Kingston Pike, Knoxville, TN 37922. (615) 966-7680.

WATAUGA GUN CLUB, Boone, North Carolina. Contact: Larry Isenhour, Rt. 1, Box 284A, Zionville, NC 28698. (704) 297-3963.

WYOMING ANTELOPE CLUB, Pinellas Park, Florida. Contact: John Jessip, 10900 Roosevelt Boulevard N., St. Petersburg, FL 33702. (813) 576-6675 (anytime).

SOUTHEAST REGIONAL ANNUAL MEETING, Greenville, S.C. — Sat., Dec. 8, 1985, 1:00 P.M.

SOUTHWESTERN REGION

ARIZONA BENCHREST SHOOTERS, Phoenix, Arizona. Contact: Nancy Miller, 7221 W. Angela, Peoria, Arizona 85345. (602) 979-5764.

Jan. 11 — Arizona State 3 Gun Championships. Spr, LV, HV
- 100 yards
Jan. 12 — Arizona State 3 Gun Championships. HV, LV, Spr
- 200 yards

Feb. 8 — LV
Feb. 9 — HV
Mar. 1 — Cactus Classic, LV, HV, 100 yards
Mar. 2 — Cactus Classic, HV, LV, 200 yards
Apr. 5 — LV
Apr. 6 — LV

Nov. 8 — Southwest Regionals, Spr, LV, HV, 100 yards
Nov. 9 — Southwest Regionals, HV, LV, Spr, 200 yards
Starting time: 8:00 a.m. Three minute sight-in.

CALIFORNIA BENCH REST SHOOTERS ASSOCIATION, Visalia, California. Contact: Dennis Thornbury, 1114 S. McAuliff Road, Visalia, CA 93277. (209) 732-4401.

CARSON RIFLE AND PISTOL CLUB, Carson City, Nevada. Contact: Dick Cundiff, 2549 Sneddon Way, Carson City, Nevada 89701. (702) 882-9115.

DESERT SPORTSMAN'S RIFLE AND PISTOL CLUB, Las Vegas, Nevada. Contact: Alan Ashby, 605 Salem Drive, Las Vegas, Nevada 89107. (702) 870-1701.

SOUTHERN UTAH BENCHREST ASSOCIATION, St. George, Utah. Contact: Rick Adams, 24 E. 750 South Street, St. George, Utah 84770.

GULF COAST REGION WINTER MEETING

**6:00 P.M., Saturday,
December 7, 1985**

Jims Restaurant,
Interstate 35 & Highway 183,
Austin, Texas

EQUIPMENT CAUTION

In the November issue, on page 37, in the minutes of the Directors meeting, you will find a rule book addition: "The rifle must be able to be lifted freely from the sandbag in a vertical direction with all attachments in place".

Don't miss that rule. If the match referee cannot lift your varmint class rifle straight up, without your front rest coming along with it . . . you will have a problem . . . in 1986.

None of us need to travel across West Hades to get to a match, and be disqualified for an equipment violation.

BLUEGRASS

Somehow the Editor just expected a range named "Bluegrass" to be in the heart of Kentucky horse country. Surprise . . . it's in Iowa, at the Oak Hills Gun Club, where James Bound has started holding matches.

On June 30th, seven shooters showed up (it aint easy to show up in Iowa) for a 200 yard only matches for light varmint and heavy varmint class.

Light varmint class: 1.) Mike Hentges .907, 2.) Ken Rossing .9528, 3.) John Moschkau .9706. In the heavy varmint class: 1.) John Moschkau .7626, 2.) Bob Parker .7922, 3.) Ed Kuarda .8794.

DESOTA

Fourteen shooters were at the Bruce Hodgson Range at Desota, Kansas on May 18th and 19th for a heavy varmint-light varmint match.

Light varmint, 100 yards: 1.) B.M. Russell .2270, 2.) Steve Krohn .2444, 3.) Merlin Hubbard .2808. Small group, B.M. Russell .128. At 200 yards: 1.) Charles Young .2722, 2.) Merlin Hubbard .2879, 3.) Steve Krohn .3567. Small group, Dave Oldham .279. Grand agg: 1.) Merlin Hubbard .2843, 2.) Steve Krohn .3005, 3.) Charles Young .3109. Grand agg winner Merlin Hubbard, of Maple Hill, Kansas shot a 6 PPC, Stolle action, Hart barrel, Leupold scope, 27.5 grains of T 322 with Malsby 62.5 grain bullets.

Heavy varmint, 100 yards: 1.) Mel Estep .2682, 2.) Don Creach .2944, 3.) Bud Rainwater .2968. Small group, Charles Young .150. At 200 yards: 1.) Frank Krohn .4062, 2.) Bud Rainwater .4106, 3.) Don Creach .457. Small group, Steve Krohn .387. Grand agg: 1.) Bud Rainwater .3537, 2.) Don Creach .3757, 3.) Barney Russell .4146. Grand agg winner Bud Rainwater, who was pulling off his first match win, fired a 6 PPC, Remington action, Hart barrel, Leupold scope, 27.0 grains of T 322 with Walt Berger 68 grain bullets.

MINNETONKA

Strange goings on at St. Francis, Minnesota on June 29th and 30th. First of all, conditions were halfway decent for a change; the wind only varied through a 180 degree area . . . usually you can depend on 270 degrees of major switches at Minnetonka. And not a single one of the four range agg winners was able to grab a grand agg. Usually, at this range, they just automatically give the grand agg trophy to the shooter who won the 200 yard stage.

Sporter class (13 shooters) 100 yards: 1.) Jim Hall .3022, 2.) Don Judd .3086, 3.) Ed Reiten .3092. Small group, Ed Reiten .152. At 200 yards: 1.) Ralph Judd .3791, 2.) Dick McFarlane .4046, 3.) Dwight Fitzsimmons .4443. Small group, Ed Reiten .410. Grand agg: 1.) Don Judd .4030, 2.) Ed Reiten .4100, 3.) Jim Hall .4348. Grand agg winner Don Judd, of New Brighton, Minnesota, fired a 6PPC, CPS action, JBC barrel, Leupold 36x scope, 27.5 grains of H 322 with 68 grain JBC bullets, in a rifle smithed and stocked by himself.

Heavy varmint class (41 shooters), 100 yards: 1.) Rick McFarlane .2798, 2.) Dwight Fitzsimmons .2940, 3.) Tom Hexum .3050. Small group, Rick McFarlane .153. At 200 yards: 1.) Tom Hexum .3283, 2.) Jim Ley .3382, 3.) Dwight Fitzsimmons .3389. Small

group, Dwight Fitzsimmons .306. Grand agg: 1.) Dwight Fitzsimmons .3165, 2.) Tom Hexum .3167, 3.) Rick McFarlane .3586. Grand agg winner Dwight Fitzsimmons, of Dodgeville, Wisconsin fired a 6 PPC, 40x action, Atkinson barrel, Leupold 36x scope, 27.5 grains of H 322 with 68 grain PCBC bullets, in a rifle smithed by Ferris Pindell, and stocked by Fred Sinclair.

The two gun award went to Rick McFarlane, of Thunder Bay, Ontario, with a .3975 figure that barely shaded the .3979 of Dwight Fitzsimmons. Don Judd was third, with a .4020.

LAFAYETTE

In most sections of the country, mixing hunter matches and varmint class matches is regarded as a bit out of step . . . something like putting chocolate sauce in your bourbon. Not so in Louisiana . . . it's done all the time, and nobody thinks twice about it. On June 22nd and 23rd the Hub City Club combined the Louisiana state sporter championships with a hunter class match; there were 17 shooters in both events.

In the sporter class, at 100 yards: 1.) Russell Waterman .2072, 2.) Don Geraci .2138, 3.) Mike Forman .2318, 4.) Troy Smith .2430, 5.) Marcy Lyons .2764. Small group, Russell Waterman's .128. At 200 yards: 1.) Don Geraci .3373, 2.) Marcy Lyons .3410, 3.) Russell Waterman .3479, 4.) Weldon Laviolette .3701, 5.) Mike Forman .3841. Small group, Mike Forman's .376. Grand agg: 1.) Don Geraci .2756, 2.) Russell Waterman .2776, 3.) Mike Forman .3080, 4.) Marcy Lyons .3087, 5.) Troy Smith .3257. Grand agg winner Don Geraci (and Don was cutting it a bit close in this grand agg) shot a 6PPC, Hall action, Hart barrel, Leupold 36X scope, 27.0 grains of T322 with Euber 69 grain bullets, in a rifle smithed by Dale Hutcherson, and stocked by Rodney Hutcherson.

In the Hunter class, at 100 yards: 1.) Louis Langlinais 250-9X, 2.) Marcy Lyons 249-18X, 3.) Ed Rich 249-11X, 4.) Russell Waterman 249-9X, 5.) Dennis Doshier 249-8X. At 200 yards: 1.) Russell Waterman 245-3X, 2.) Marcy Lyons 244-2X, 3.) Louis Langlinais 244-1X, 4.) Carol Green 243-3X, 5.) Ed Rich 243-3X. Grand agg: 1.) Russell Waterman 494-12X, 2.) Louis Langlinais 494-10X, 3.) Marcy Lyons 493-20X, 4.) Ed Rich 492-14X, 5.) Carol Green 491-15X. Grand agg winner Russell Waterman, of Destrehan, Louisiana fired a .308, Shilen action, McMillan barrel, Lyman 6X scope, 41.4 grains of H4895 with 168 grain Sierra bullets, in a rifle smithed by Dale Hutcherson, and stocked by himself.

FAYETTE

On October 19th and 20th the Fayette County Gun Club hosted the Alabama State Championships for Light and Heavy Varmint. Shooting conditions were near ideal for the 19 competitors with the exception of some severe vertical jump which nailed almost everyone at least once. When the shooting was over it was the familiar face of Don Geraci in the winners circle.

Things got started Saturday with the 200 Yd. Light Varmint. Jeff Summers .2415 was far ahead of the rest of the field, 2) Don Geraci .2959, 3) Tom Van Landingham .2975, 4) Ed Pennebaker .3013, 5) Gary Vincent .3048. Jeff also got the Small Group with a .206.

Light Varmint 100 yds. on Sunday morning was won handily by Bill Grimes with a fine .1788. Followed by, 2) Gary Vincent .2144, 3) Jeff Summers .2210, 4) Jim Nations .2338, 5) James Stewart .2626. Small Group went to Stewart also with an almost screamer .102.

In the Light Grand Jeff Summers fine 200 yd. shooting carried him through for the win and Bill Grimes super agg. at the 100 yd. stage gave him second. The top five were: 1) Jeff Summers .2313, 2) Bill Grimes .2544, 3) Gary Vincent .2596, 4) Tom Van Landingham .2806, 5) Jim Nations .2840. The winner, Jeff Summers of Knoxville, Tenn. shot a 6PPC, Hall action, Shilen barrel, with a Leupold 36X scope and 27.5 grains of T-322 behind Watson 68 grain bullets in a gun smithed by Kenny Jarrett and stocked by Sinclair.

In Saturday afternoon's Heavy Varmint 200, Don Geraci following Jeff's morning example ran off and hid from the field to take the win. 1) Don Geraci .2423, 2) Jeff Summers .2880, 3) Bill Hall .2979, 4) Jack Yeatts .3070, 5) Tom Van Landingham .3305. Small Group Don Geraci .263.

On Sunday afternoon the "Cajun" noticed that he hadn't done too well in the Light Varmint Class and knew he had to tighten up and tighten up he did. Heavy Varmint 100, Don Geraci .1742, 2) Ed Pennebaker .2322, 3) Murry Anderson .2476, 4) Jerry McFall .2558, 5) Gary Vincent .2652. Small Group, an "Official Screamer" .074 by Don Geraci.

At Grand Agg. time there was no doubt about the winner. 1) Don Geraci .2083, 2) Jeff Summers .2944, 3) Tom Van Landingham .3072, 4) Jack Yeatts .3106, 5) Ed Pennebaker .3139. Don shot a 6PPC Hart A-1 action, Hart barrel, Leupold 36X scope and 27 grains of T-322 behind Euber 68 grain bullets in a gun smithed by Hutchenson and stocked by Brackney.

For the Two Gun it was Geraci by way of his outstanding Heavy Varmint Grand. 1) Don Geraci .2469, 2) Jeff Summers .2629,

3) Gary Vincent .2899, 4) Tom Van Landingham .2939, 5) Bill Grimes .2969.

The Fayette, Alabama range was in a rather isolated location (polite for boondocks) but the man running their shoot, Charles Layhay, seems really concerned with two things, running a good shoot and the shooters enjoyment. He succeeds on both counts and it was worth the long trip to attend.

Reported by:
Tom Van Landingham

ST. LOUIS

There were 14 hunter class shooters at the St. Louis range on June 9th for a hunter class match. Conditions were pretty good . . . but nobody who shot well at 100 yards could do anything at 200 yards . . . and vice versa.

At 100 yards: 1.) Larry Smart 250-14x, 2.) Dan Jarvis 249-13x, 3.) Charlie Scott 249-11x. At 200 yards: 1.) Guy Chism 246-3x, 2.) Ron Hoehn 245-2x, 3.) Wayne Corley 244-7x. Grand agg: 1.) Wayne Corley 492-17x, 2.) Larry Smart 492-16x, 3.) Ron Hoehn 491-8x. Grand agg winner Wayne Corley, of St. Charles, Missouri fired a .308, Remington 700 action, McMillan barrel with Pyro-Dux treatment, Weaver KT-6 scope, 45.4 grains of 4350 powder with Sierra 168 grain bullets, in a rifle smithed by Fred Sinclair, and stocked by himself.

NEW NBRSA RECORD

ED PENNEBAKER, the driving force behind Pyro-Dux barrel treatment, showed up at the Kettlefoot range at Bristol, Tennessee on July 6th, with his unlimited class gun, and no real thoughts of impending record-breaking. The gentleman from Greenville, South Carolina merely wished to "shoot well". So much for the humility stuff. Ed Pennebaker fired a ten shot group at 200 yards that has since been officially measured at .290, thereby removing from the record book the .298 record of Melvin Miller that dated back to July 20th, 1968. And this was no freak group . . . the Pennebaker grand agg was .2587 . . . narrowly missing the .2556 record. Mr. Pennebaker fired a 6PPC, Remington XP-100 action, Lyman-Siebert 30x scope, Hart barrel with Pyro-Dux treatment, and a case full of H322 powder, with Watson 62.5 grain bullets, in a rifle smithed by Fred Hasecuster.

COLUMBIA

On June 8 and 9 the Mid-Carolina Rifle Club hosted the E.B. Bumgardner Invitational. Twenty four shooters braved the

South Carolina heat and humidity to shoot the four gun 100 yd. event. Nick Young started things off with a win in the unlimited 10 shot class using his new cartridge the 6mm WaSP. (This is not a missprint, but the way Nick spells it, the capitol SP is for small primer.) 1) Nick Young .3018, 2) C.R. Davis .3234, 3) Ed Pennebaker .3344, 4) Danny Regans .3370, 5) James Messer .3382. Small Group, Danny Regans .192. Nick Young of Knoxville, Tenn. fired his 6mm WaSP in a self designed rail gun built and smithed by Les Schimpf, sleeved XP-100, Shilen barrel, Unertl 40X scope, 30 grains of 4895 behind his own 70 gr. bullets.

In Heavy Varmint, Larry Earp got the win with a fine .2346, 2) Jeff Summers .2432, 3) Ed Watson .2766, 4) Ed Pennebaker .2940, 5) C.R. Davis .3040. Small group Julio De Angelis .117. Larry Earp of Charlotte, N.C. fired a 6PPC, Rem. 50X action, Hart barrel, Redfield 28X scope, 29 grains of H-322, Earp 65 grain bullets in a rifle smithed by Charlie Joines and self stocked.

Ed Pennebaker got into the winners circle in the Sporter Class with a .2414 followed by 2) Jeff Summers .2736, 3) Larry Earp .2874, 4) George Javo .3020, 5) Julio De Angelis .3180. Small Group Jeff Summers .151. Winner Ed Pennebaker of Greenville, S.C. fired a 6PPC, XP100 action, Shearer (Pyro-Dux) barrel, Lyman/Siebert 25X scope, a full case of H-322 behind Watson 62½ grain bullets in a rifle smithed by Sinclair and stocked by David Trolley.

In Light Varmint, it was George Javo .2172, 2) Scip Peden .2290, 3) Jeff Summers .2332, 4) Danny Regans .2442, 5) Larry Earp .2456. Small Group George Javo with an "official screamer" .094. George Javo of Atlanta, Ga. fired a 6PPC, CPS action, Wiseman barrel, Leupold 36X scope, 28.6 gr. of H-322 behind Beck 65 grain bullets in a rifle smithed and stocked by James Coffey.

Jeff Summers of Knoxville, Tenn. took the Four Gun with a .2798, 2) Larry Earp .2817, 3) Ed Pennebaker .2848, 4) Danny Regans .3051, 5) Ed Watson .3170.

When the shoot was finished Nick Young said he really wasn't out to win but experimenting like Jon Leu said we should, but it was noted that he carried the 1st place trophy anyway!

SMITHFIELD

The NBRSA Pennsylvania Unlimited class state championships, and an accompanying heavy varmint class match were held on July 13th and 14th. The weather was just what the doctor ordered, warm, with light breezes, and dry. Twenty

five shooters were on hand for the heavy gun class.

The ten shot gang, at 100 yards: 1.) Butch Wahl .2790, 2.) Jerry Masker .3024, 3.) Orlin Gilkerson .3032, 4.) Joe Lockhart .3172, 5.) Wayne Utchell .3304, 6.) Duncan Daugherty .3378. Small group went to Wayne Utchell for a .168; not bad for ten shots. When the target frames went back to 200 yards: 1.) Orlin Gilkerson .4013, 2.) Jerry Masker .4020, 3.) Bill Brawand .4911, 4.) Joe Lockhart .4964, 5.) Ben Seaman .5003, 6.) Charles Dalessandro .5074. Small group was Duncan Daugherty's .400.

At grand agg time the rule book had to be dragged out. Two shooters, Jerry Masker and Orlin Gilkerson were tied with identical 4 digit aggs of .3522 apiece. Jerry Masker's small group at 100 yards was .215, while Mr. Gilkerson's small group was a .242. At 200 yards the Masker small group was a .445, and Orlin's group a .587. Thus the grand agg trophy went to the Getzville terror, Jerry Masker. Grand agg rankings: 1.) Jerry Masker .3522, 2.) Orlin Gilkerson .3522, 3.) Joe Lockhart .4068, 4.) Ben Seaman .4256, 5.) Charles Dalessandro .4329, 6.) Bill Brawand .4414. Jerry Masker, of Getzville, New York fired a 6 PPC, sleeved Wichita 1375 action, Hart barrel, Lyman-Siebert 40x scope, 29.5 grains of Norma 201 with 68 grain Euber bullets, in a Bill Hall rail gun rig that was smithed by Seely Masker.

For the heavy varmint class, there were 42 shooters on hand. Don Utchell did some nice shooting, getting down "into the teens," with a .1928 agg, and taking the first place trophy. Those trailing: 2.) Rodney Sourwine .2196, 3.) Jesse Corder .2372, 4.) Nate Boop .2528, 5.) Ed Cowden .2596, 6.) Charles Dalessandro .2648. Small group at 100 yards was shot by a grand lady with many years experience with her .222; Hilda

ST. LOUIS

The Missouri shooters are an emerging power in hunter class shooting, threatening the Cajun dominance in what was previously an area where others feared to tread. Ten shooters on line at the St. Louis club for a July 7th hunter class match. At 100 yards: 1.) Larry Smart 249-12x, 2.) Charlie Scott 249-10x, 3.) Clark Greene 248-7x. At 200 yards: 1.) Larry Smart 244-8x, 2.) Wayne Corley 244-1x, 3.) Rich Griffin 242-3x. Grand agg: 1.) Larry Smart 493-20x, 2.) Wayne Corley 491-12x, 3.) Ron Hoehn 490-8x. Grand agg winner Larry Smart, of Union, Missouri fired a 30 HBR, Remington action, Hart barrel, Weaver T-6 scope, 37.8 grains of H 4895 with Sierra 168 grain bullets, in a rifle smithed and stocked by himself.



Heavy varmint class winners at Smithfield (from left): John Sobolewski, Don Utchell, Orlin Gilkerson, Hilda Cork, Nate Boop, Jim Wakely, Jim Schultz.

Cook, of Clarksburg, West Virginia just missed "official screamer" ranking with her .101 group. At 200 yards, Nate Boop took the yardage trophy, with his .2980 agg. Those trailing a tad: 2.) Robert Stombaugh .3331, 3.) Orlin Gilkerson .3499, 4.) Jim Schultz .3535, 5.) Wayne Utchell .3802, 6.) Jim Wakely .3879. Small group was John Minico's .355.

At grand agg time, Nate Boop took the big trophy by a convincing margin with a

.2754 figure. The supporting cast: 2.) Jim Schultz .3092, 3.) Orlin Gilkerson .3298, 4.) Jim Wakely .3372, 5.) John Sobolewski .3389, 6.) Rodney Sourwine .3410. Grand agg winner Nate Boop, of Mifflinburg, Pa. fired a 6 PPC, Hall action, Hart barrel, Leupold 36x scope, an unspecified amount of H 322 with Euber 68 grain bullets and Federal primers, in a rifle smithed and stocked by Ferris Pindell and stocked by himself.



Unlimited class winners at Smithfield (from left): Wayne Utchell, Orlin Gilkerson, Jerry Masker, Charles Dalessandro, Ben Seaman, Joe Lockhart, Butch Wahl.

Photos by Royce Leckemby

GREELEY

The Northern Colorado Benchrest Shooters had eight shooters on hand on June 30th for a hunter class match. At 100 yards: 1.) John Ambler 250-11x, 2.) Slim Zinanti 246-8x, 3.) Bill Ruth 246-7x. At 200 yards: 1.) Bill Ruth 243-3x, 2.) Vicki Roane 234-1x, 3.) Slim Zinanti 233-1x. Grand agg: 1.) Bill Ruth 489-10x, 2.) Slim Zinanti 479-9x, 3.) Vicki Roane 475-5x. Grand agg winner Bill Ruth, of Greeley, Colorado fired a 30 SP, Remington 700 action, Hart barrel, Weaver 6x scope, an unspecified amount of H 322 with Sierra 150 grain bullets, in a rifle smithed and stocked by John Ambler.

NEW NBRSA RECORD

Rex Reneau, of Bethany, Oklahoma, lowered the light varmint class grand agg record to a .2110 figure on June 22nd, at The Mill Creek (Kansas City) range. The previous record, of .2169, by Lester Bruno dated back only to July 26, 1984.

In his Herculean efforts on the 22nd of June, the good Mr. Reneau employed a 6 PPC, Stolle action, Hart barrel, Leupold 36x scope, 28.0 grains of T 322 with his own 68 grain bullets, made in Rorschach dies, and gunsmithed by his cross-town buddy, Dennis Wagner.

MISSOULA

Bill Cote bested ten other shooters at Missoula, Montana in a hunter class match on July 7th. At 100 yards: 1.) Lee Andrews 248-12x, 2.) Matt Kalbarczyk 248-10x, 3.) Bill Cote 248-9x. At 200 yards: 1.) Bob Fritz 243-3x, 2.) Bill Cote 243-3x, 3.) Matt Kalbarczyk 241-3x. Grand agg: 1.) Bill Cote 491-12x, 2.) Bob Fritz 491-9x, 3.) Matt Kalbarczyk 489-13x. Grand agg winner Bill Cote, of Missoula, Montana fired a .308, Remington 700 action, Hart barrel, Weaver 6T6 scope, 45.6 grains of H 380 powder with 168 grain Sierra bullets, in a rifle smithed by Erhardt, and stocked by himself.

ENTIAT

The Entiat, Washington range had 15 shooters on line for their June 30th hunter class match. At 100 yards: 1.) Verne Johnson 250-6x, 2.) Steve Kostanich 247-11x, 3.) Stan Johnson 246-11x. At 200 yards: 1.) Verne Johnson 243-4x, 2.) Steve Kostanich 242-3x, 3.) Ted Whitehall 240-2x. Grand agg: 1.) Verne Johnson 493-10x, 2.) Steve Kostanich 489-14x, 3.) Stan Johnson 483-13x. Grand agg winner Verne Johnson, of Portland, Oregon fired a HC 30 (?), Remington action, McMillan barrel, Leupold 6x scope, and 36.9 grains of T 322 with 110 grain Speedy Gonzalez bullets.

GALLATIN

On the 21st and 22nd of September, the Gallatin Gun Club hosted the Tennessee State Championships with a Four Gun 200 yd. shoot. The shooting conditions went from near ideal both mornings to about intolerable both afternoons. Jeff Summers of Knoxville, Tenn. took the Four Gun honors with James Messer of Silva, N.C. snapping at his heels all the way. The results were as follows: Heavy Varmint, 1) Jeff Summers .2393, 2) Fred Hasecuster .2426, 3) Bill Grimes .2456, 4) Jim Stewart .2965, 5) Ed Pennebaker .3001. Small Group went to Bill Grimes with an "official screamer" .191. The winner, Jeff Summers shot a 6PPC in a Hall action, Shilen 4 groove barrel, Leupold 36X scope with 27.5 grains of T-322 behind 68 grain Berger bullets in a self stocked gun smithed by Broughton.

Unlimited (10 shot) 1) Ed Watson .3752, 2) Charles Curtis .4165, 3) James Messer .4340, 4) Bill Forrester .4692, 5) Ed Pennebaker .4808. Small Group Ed Watson .639. Ed, of Greenville, S.C. shot 6PPC in a Hall action, Hart barrel, Redfield 28X scope with 25 grains of T-322 behind Watson 62 grain bullets in a Bill Hall rail gun smithed by Broughton.

Sporter, 1) Duncan Daugherty .2301, 2) Tom Van Landingham .2474, 3) Bill Forrester .2545, 4) Jeff Summers .2584, 5) James Messer .2698. Small Group Bill Forrester .208. Duncan, of Huntington, W. Va. shot a 6PPC, Stolle action, Hart barrel, Leupold 36X scope, 28 grains of H-322 behind Metzger 65 grain bullets in a gun smithed and stocked by Sinclair.

Light Varmint, 1) Duncan Daugherty .3783, 2) Bill Grimes .3923, 3) Jeff Summers .3969, 4) James Messer .4053, 5) Bill Forrester .4245. Bill Forrester hung for his second Small Group of the day with a .432. Duncan used the same gun that won the Sporter Class.

Four Gun, 1) Jeff Summers .3461, 2) James Messer .3585, 3) Bill Forrester .3675, 4) Duncan Daugherty .3713, 5) Ed Watson .3744, 6) Fred Hasecuster .3989, 7) Tom Van Landingham .4145, 8) Ed Pennebaker .4234, 9) Gus Robinson .4331, 10) Jim Stewart .4505. This was the first shoot in three years at this fine 50 bench range and was dedicated to the deceased founder, Frank Allison.

Submitted by: Tom Van Landingham

MEMBERSHIP IN NBRSA

The cost of NBRSA Membership is only \$25.00 including a subscription to PRECISION SHOOTING. Associate Memberships are available only to the spouses and children under 18 of current NBRSA members, cost \$5.00 per year and includes all privileges except receipt of PRECISION SHOOTING. Outside the U.S. and Canada: Surface mail - \$37.50. Air Mail \$55.00

Send your check and application (which need not be on an official form) to Mrs. Stella Buchtel, Secretary NBRSA, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

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